Berkeley Lab

Signage and Public Information Standards Manual

Volume 1: Interior Signage

Version 2.0.1
1.25.00

Studio L'Image

Contents

(continued)

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Preface

Interior Standards

The interior signage system is in the process of being installed lab-wide. Materials, finishes, and colors will be required to match existing system components to a high degree of exactitude, subject to the approval of the design team. This document addresses the standards in detail. Any questions regarding colors, finishes, or fabrication details should be directed to the design team.

Art Creation

Vendors will be responsible for setting type to specifications provided. Design team will be responsible for providing artwork for maps, arrows, pictographs, logos and symbols used in the signage. Vendor should inform the design team of any format requirements or preferences.

Changes

The specifications in this document supercede all previous documents.

Design Team

Questions about the specifications in this document may be addressed to the design team:

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Copyright Statement

Interior Signage Conventions

Interior

Directional

Scale 1:10

→	MAIN LEVEL Laboratory Directorate
4001	Auditorium
4034	Main Library
4049	Accelerator and Fusion Research Division Office
4205	Teleconference Room
4230	Computing Sciences Directorate
	Information and Computing Sciences Division Office
	National Energy Research Scientific Computing Center
◆	Main Lobby
⬆	South Elevator

Directional Primary
Code: DP
Module Type: F

→	LEVEL 1
1515	Nuclear Science Division Office
1524	Physics Division Office
🚻	Restrooms

Directional Secondary
Code: DS
Module Type: G

⬆	Teleconference Room

Directional Tertiary
Code: DT
Module Type: H

Scale 1:20

⬆ ⑥ ALS Experimental Floor
↖ ⬆ Elevator

Directional Primary, Ceiling
Code: DPC
Module Type: P

← 🚶 Stairs to LEVEL B

Directional Secondary, Ceiling
Code: DSC
Module Type: Q

Identification

Scale 1:10

4001	AUDITORIUM

Identification Primary, ADA Text
Code: IPA
Module Type: D

4112	Deputy Director, Operations Laboratory Counsel Public Information Department

Identification Primary, Number
Code: IPN
Module Type: D

4240
Bill McCurdy

Identification Secondary
Code: IS
Module Type: E

♿
RESTROOM

Identification Tertiary
Code: IT
Module Type: C

MEN

Identification Tertiary
Code: IT
Module Type: S
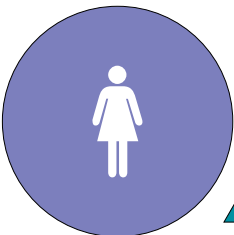
Identification Women
(Title 24)
Code: IW
Module Type: K
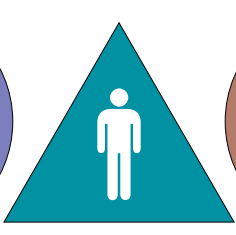
Identification Men
(Title 24)
Code: IM
Module Type: J
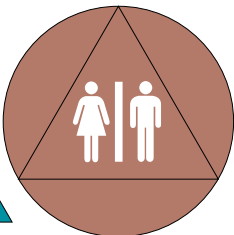
Identification Unisex
(Title 24)
Code: IU
Module Type: L

(stairs)
EAST STAIRS

Identification Stairwell
Code: ISW
Module Type: N

Interior

Informational

Scale 1:10

Informational Primary
Code: NP
Module Type: M

Informational Secondary
Code: NS
Module Type: O

Informational Tertiary, Building
Code: ITB
Module Type: C

Orientation

Scale 1:10
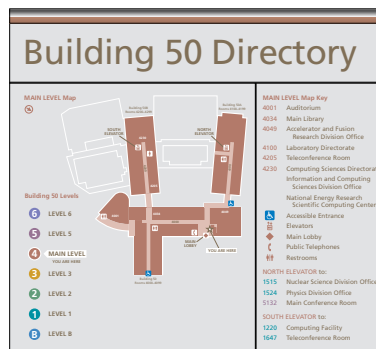
Orientation Primary
Code: OP
Module Type: A
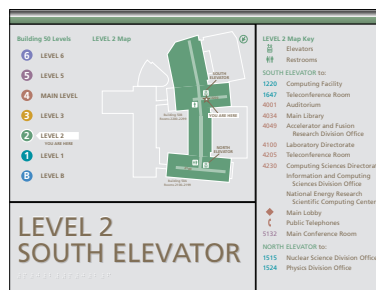
Orientation Secondary
Code: OS
Module Type: B

Orientation, Level Indicator
Code: OLI
Module Type: C
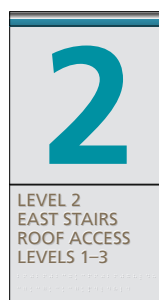
Orientation, Stairwell
Code: OSW
Module Type: N

Sign Unit Code Description

In the interior signage system, each sign unit is identified by a three-part code. The Sign Message Inventory list breaks out the code in the first three columns.

DP.407.F

1 2 3

1. Function Code

Identifies functional type (1st character), hierarchy (2nd character) and/or detail differentiation (2nd/3rd character).

Functional Categories	*Detail Codes*
D = Directional	A = ADA Text
I = Identification	B = Building
N = Informational	N = Numeric
O = Orientation	M = Men
Hierarchy	W = Women
P = Primary	U = Unisex
S = Secondary	LI = Level Indicator
T = Tertiary	SW = Stairwell

Examples of use:

DP = Directional, Primary
OLI = Orientation, Level Identification
IPN = Identification, Primary, Numeric
IPA = Identification, Primary, ADA Text

2. Sign Number*

Uniquely identifies each individual sign. First digit is Level Number; on the map of a given level the sign placement is indicated by the significant digits only.

000	=	Level B	400	=	Level 4
100	=	Level 1	500	=	Level 5
200	=	Level 2	600	=	Level 6
300	=	Level 3	…etc.	

3. Module Type

The system consists of various module types, designated alphabetically as A, B, C, and so on. Each module type defines a particular sign dimension and layout. Any one module type may be used for multiple functions, with the difference being the content of the discrete panels. Construction of each module type is described in Section 3.00. Specifications common to all modules are covered in this section.
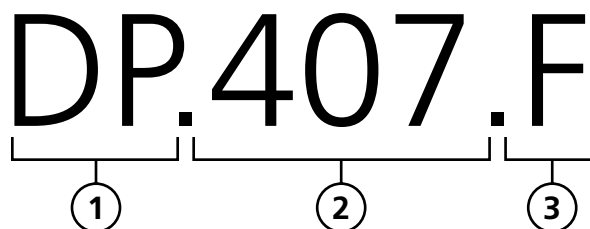
*Special Case: *In the case of a restroom where an ADA compliant module is placed next to the door and a Title 24 compliant sign is placed on the door, this pair is identified with a single number; for example IT.104.C and IM.104.J. Also note that building number must be specified; see 4.00.*

Sign Module Type Listing

CODE	DESCRIPTION	MODULE TYPE
OP	Orientation, Primary	A
OS	Orientation, Secondary	B
OLI	Orientation, Level Indicator	C
OSW	Orientation, Stairwell	N
IPA	Identification, Primary (ADA Text)	D
IPN	Identification, Primary (Numeric)	D
IS	Identification, Secondary	E
IT	Identification, Tertiary	C
ISW	Identification, Stairwell	N
IM	Identification, Men (Title 24)	J
IW	Identification, Women (Title 24)	K
IU	Identification, Unisex (Title 24)	L
DP	Directional, Primary	F
DPC	Directional, Primary (Ceiling)	P
DS	Directional, Secondary	G
DSC	Directional, Secondary (Ceiling)	Q
DT	Directional, Tertiary	H
NP	Informational, Primary	M
NS	Informational, Secondary	O
NTB	Informational, Tertiary (Building)	C
NR	Informational, Regulatory	N

Color Code Description

A fundamental feature of the signage system is the convention of Level (or Building) Color Codes. In certain large buildings each level is assigned a distinctive color. Within each sign unit, items such as the Header Strip, room numbers, and pictographs are called out in the code color for that particular level. In other buildings, various wings or areas may be assigned different signage colors for wayfinding purposes. Other buildings may consist of only one level, or feature one color for all levels; therefore all signs share the same Level Color. Section 4.00 of this volume details the color systems for all buildings for which a signage program has been implemented. New programs being contemplated should have the wayfinding needs analyzed in the planning stages before any color choices are finalized.

The Color Code List on the following page shows the complete interior signage color system. Not all colors may be required for any particular implementation. The module description pages provide specific information about individual signs.

Color of Level
In the module description pages in this document, "color of level" refers to the *assigned color* for the particular building, wing, or level in which the sign is located; i.e., when color C(L) is indicated, refer to the Color Code List for that particular building in section 4.00.

In the case of the orientation maps, these color details will be included in the digital art files. However, this convention also affects individual message strips on directional units, as indicated in the module descriptions, as well as the details noted in the first paragraph.

Color Code List

CODE	COLOR SPEC	FUNCTION
C1	Matthews Nuance 13A-3P Alabaster	Sign base color
C2	Pantone Warm Gray 11	Default message type color (unless noted)
C(L)	Color (of Level)	Abbreviation used in module layout pages to indicate elements that vary in color according to level
C(L)S	Secondary Color (of Level)	Accent color based on Level Color; used in orientation maps for contrast
LB	Matthews 76B-4D Antioch Blue	Color
LBS	Matthews 76B-27T Breton	Secondary Color
L1	Matthews 57C-4D Airland Blue	Color
L1S	Matthews 57C-2T Aquamarine Blue	Secondary Color
L2	Matthews 44C-4B Polo Green	LColor
L2S	Matthews 44C-2T Village Green	Secondary Color
L3	Matthews 36B-4A Pigskin	Color
L3S	Matthews 36B-2D Harvest	Secondary Color
L4	Matthews 11B-4D Light Earth	Level Color
L4S	Matthews 11B-1P Country Way	Secondary Color
L5	Matthews 1C-4D Rich Plum	Color
L5S	Matthews 1C-2T September Glory	Secondary Color
L6	Matthews 72C-4D Violet Sequin	Color
L6S	Matthews 72C-2T Savon Star	Secondary Color
WH	White	Used in orientation maps and some pictographs
P300	Pantone 300 CV	Accessibility pictograph
P388	Pantone 388 CV	You Are Here symbol in orientation maps (alternate color)
P1375	Pantone 1375 CV	You Are Here symbol in orientation maps

Fabrication Details

Certain features that are used consistently throughout the system are described here, in order to avoid redundancy in the module description pages.

Sign Base Color and Finish
The background color for all sign components and panels (except Header Strips) is C1 (see Color Code, page 2.03.02). The finish for all colors (except Header Strips) is matte. Unless otherwise noted, all type and art is screen printed with a matte finsih. Applied vinyl type is not acceptable on interior signage.

Header Strip Color and Finish
All module types (except E and P) feature a Header Strip, consisting of a length of 3/4 inch (19mm) half-round aluminum bar, permanently mounted to the sign base. See page 2.04.02 for finish and paint specs.

Permanent vs. Removable
In this document, if a component is described as being attached "permanently", it means that there is no functional reason why that component should need to be separated. Sign base panels are "permanently" attached to walls using foam tape and silicone adhesive. Header Strips are "permanently" attached to sign base panels using double-sided tape. Components described as "removable" are designed to be replaced from time to time, and need to be interchangeable without damage to the sign unit. "Removable" message panels are attached magnetically.

Dado Detail Description
Many module types include separate, often removable panels. Where these panels adjoin each other, the appearance of the junction is enhanced by a notch or dado cut, 1mm wide by 1mm deep, running along the edge of one of the panels. In the module descriptions, the presence of this detail is called out as "Dado/top" or "Dado/left", referring to the panel edge.

Header Strip

0   9.5

0

19mm
(.75 in)

HEADER STRIP
Color: C(L) special*
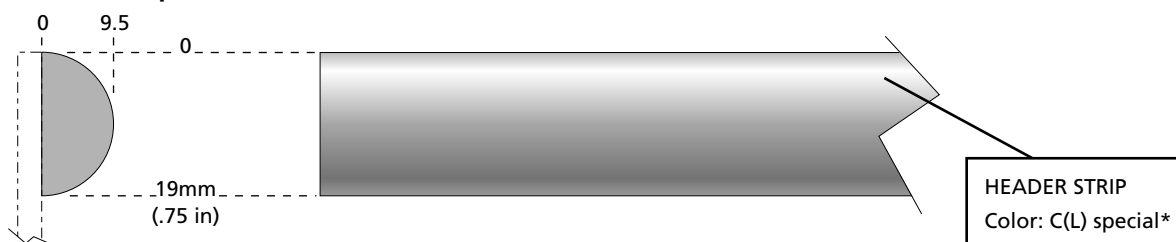
Dado Detail (single message strip shown)

Depth 1mm
1mm

0

0

4100
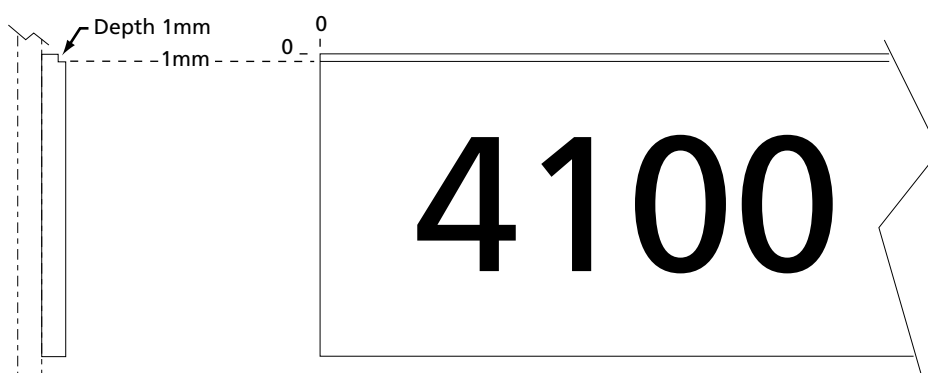
Header Strip Fabrication

Header Strip Color and Finish

The header strips are formed of 3/4" aluminum half-round. In practice this is usually cut down from round bar stock. The brushed finish is created with an orbital sander using 80# sandpaper. The brushed finish covers the curved surface and the cut ends of the header strip.

The special transparent colors are created using the urethane enamel color system Kosmic Kolor by House of Kolor. All parts are pre-coated with House of Kolor Adherto AP-01.

The general paint formulas are shown below.

A sample board is available from the design team to aid in matching the existing colors and finish. Formulas and ratios may need slight adjustment by eye to match provided color samples. Paint application should be monitored carefully to avoid oversaturation of color through buildup of transparent paint.

Note: unlike the provided color samples, the cut ends of the header strips should be brush-finished and painted.

Header Strip Paint Formulas

LB (Antioch Blue)	Cobalt Blue UK-05
L1 (Airland Blue)	14 parts Teal UK-15, 4 parts Organic Green UK-09, 1 part Pagan Gold UK-12
L2 (Polo Green)	8 parts Organic Green UK-09, 1 part Pagan Gold UK-12
L3 (Pigskin)	64 parts Pagan Gold UK-12, 2 parts Apple Red UK-11, 1 part Purple UK-10
L4 (Light Earth)	32 parts Apple Red UK-11, 10 parts Pagan Gold UK-12, 1 part Teal UK-15
L5 (Rich Plum)	Purple UK-10
L6 (Violet Sequin)	8 parts Purple UK-10, 4 parts Cobalt Blue UK-05
Paint Ratio	*2 parts base color, 1 part reducer, 1 part flattening agent*

Typography

The type family specified for all signs is Frutiger. Frutiger Roman is the standard weight and is used on all modules. Orientation modules also use Frutiger Bold for some titles and callouts. Type size specification for specific signs are given in the Module Description pages.

Frutiger Roman

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
0123456789.,:/?

Frutiger Bold

**ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
0123456789.,:/?**

Arrow Art

The arrow symbol used throughout the system has been specifically designed to harmonize with the chosen type-faces. The signage vendor should use the arrow art as shown on this page and supplied as digital art on disk.

Up
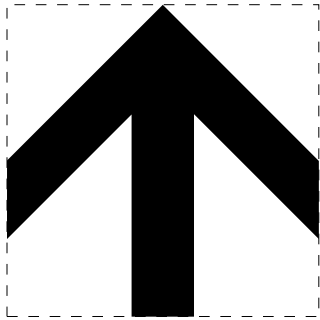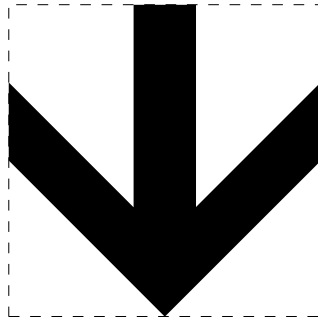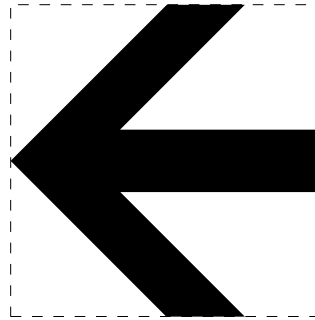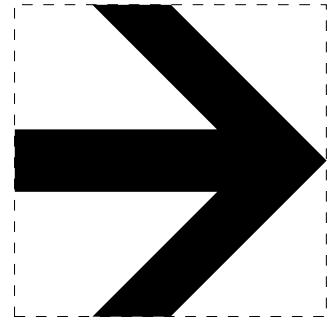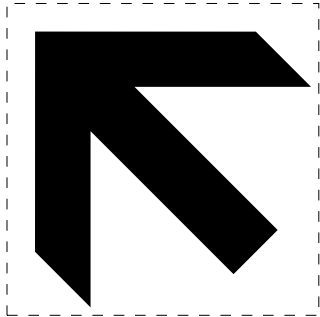
Down

Left

Right

Up Left
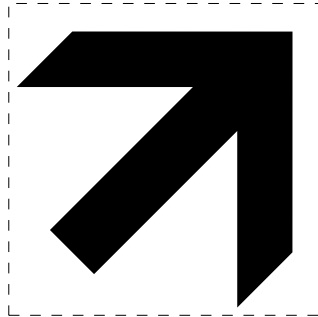
Up Right
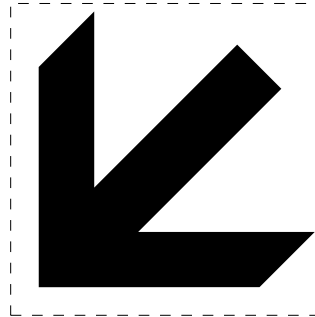
Down Left
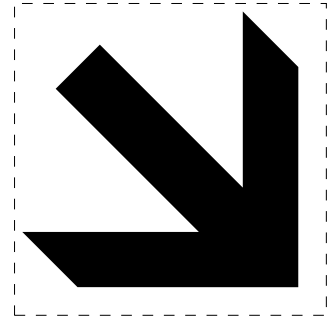
Down Right

Pictographs

Accessibility
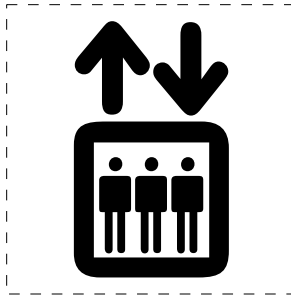
Elevator
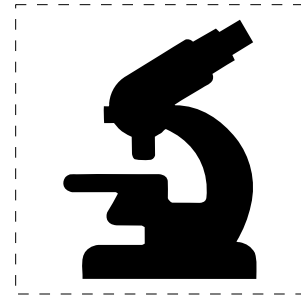
Laboratory
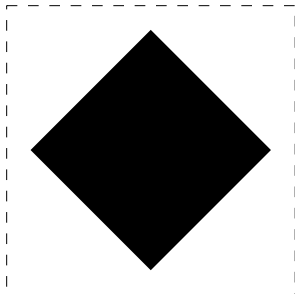
Main Lobby
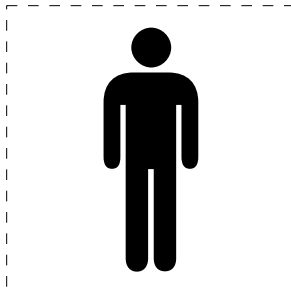
Men's Restroom
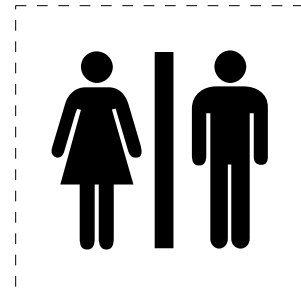
Restrooms
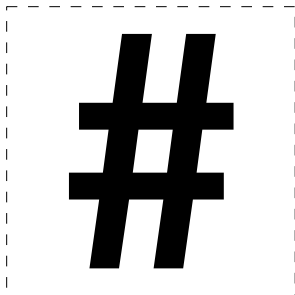
Rooms (by Number)
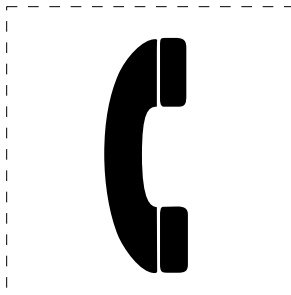
Telephone
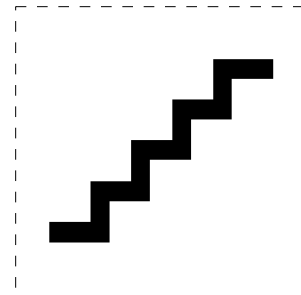
Stairs
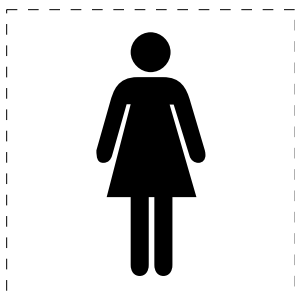
Women's Restroom

General Description

The mounting specifications for the interior sign system are designed to achieve visual consistency among the various sizes and types of sign modules. For this purpose the modules are divided by size into groups. Within each group there is a single mounting height specification.

The following pages illustrate the mounting specifications for each of the module types, arranged by groups. Specific horizontal placement instructions are shown where applicable.

Group I

Module types in Group I include A, B, F, G, H, M, N, and O. The mounting specification is designed to align the header strips at the top of each of these units. Group I modules are top aligned to a mark 1840mm from the floor level.

One exception to this specification occurs where a module A orientation map is located adjacent to a marked accessible entrance. In this circumstance the sign unit is mounted at a wheelchair-accessible height, with the top aligned at 60 inches (1524mm).

Group II

Module types in Group II include C, D, E, and S. The mounting specification is designed to align the tactile lettering and Braille type on each of these units close to the reference height of 60 inches. Group II modules are bottom aligned to a mark 1461mm from the floor level.

Group III

Module types in Group III are K and L. The mounting specification is designed to center the pictographs on each of these units on the reference height of 60 inches. Group III modules are top aligned to a mark 1676mm from the floor level.

Group IV

The only module type in Group IV is J. The mounting specification is designed to center the pictograph on this unit with that on the units in Group III, at the reference height of 60 inches. Group IV modules are top aligned to a mark 1680mm from the floor level.

Group V

Group V includes module types P and Q. The mounting specification for these overhead units is necessarily dependent on site constraints such as ceiling height, and will be individually specified for each application. Group V modules have a minimum height specification for the bottom edge at 2134mm (7 feet) from the floor level.

Horizontal Placement

Sign modules that are associated with doors, including types C (IT), D, E, N, and S, are positioned two inches away from the door edge trim on the latch side of the door. Modules associated with elevator doors, typically B and sometimes C, are generally positioned 2 inches from the elevator door surround on the right hand side, but may be placed on the left if necessary due to space constraints. Where the wall section adjacent to the elevator is particularly narrow (less than 3 feet), it may be visually more attractive to center the module in the available space.

Sign modules that are not associated with features such as doors and elevators include A, C (OLI), F, G, H, M, N, and O. The placement of these modules is generally determined by their content, but certain guidelines should be followed. Wherever possible, new sign units should be placed no closer than 12 inches to existing signs or other wall-mounted obstacles such as fire extinguishers, etc. The absolute minimum distance between adjacent signs is two inches. Neighboring sign units should never directly touch each other.

Many directional sign units are positioned near corners; the standard distance from the corner is six inches, and the minimum is two inches. Larger units, such as A, F, G, and M, are frequently best placed in the center of a section of wall between doors, windows, bulletin boards, and other interruptions, so long as the position meets messaging requirements.

Group I
Directional
Modules F, G, H

Elevation
Scale 1:12

12 in. minimum

Group I Top Line 1840mm

	MAIN LEVEL
→	Laboratory Directorate
4001	Auditorium
4034	Main Library
4049	Accelerator and Fusion Research Division Office
4205	Teleconference Room
4230	Computing Sciences Directorate
	Information and Computing Sciences Division Office
	National Energy Research Scientific Computing Center
◆	Main Lobby
	South Elevator

F

Sign top height = 1840mm

	LEVEL 1
→	
1515	Nuclear Science Division Office
1524	Physics Division Office
	Restrooms

G

Sign top height = 1840mm

↑	Teleconference Room

H

Sign top height = 1840mm

Reference Line 60 in. (1524mm)

Group I
Identification
Module N

Elevation

Scale 1:12

2 in
50mm

Group I Top Line
1840mm

Reference Line
60 in. (1524mm)

EAST
STAIRS

N

Sign top height = 1840mm
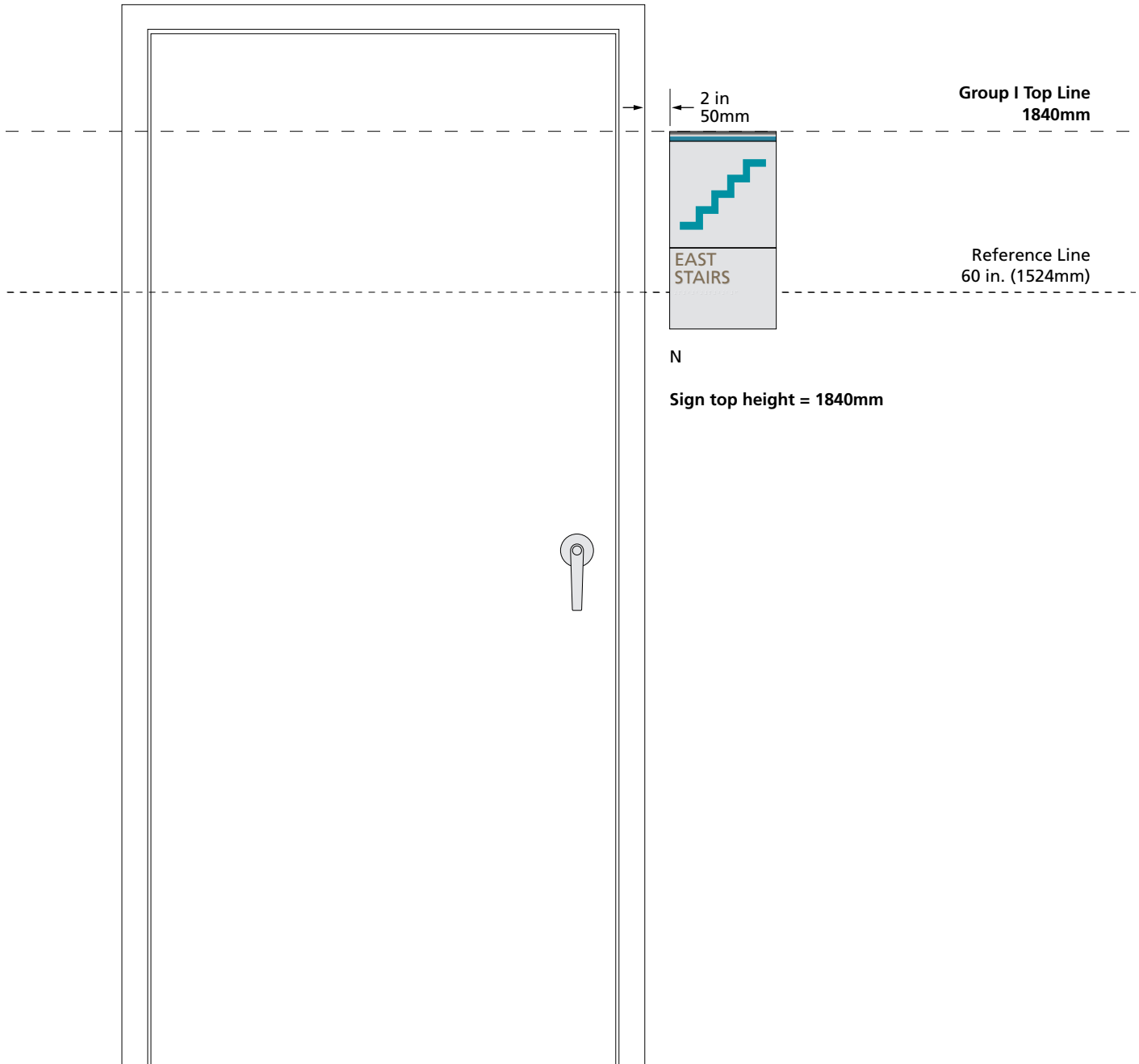
Group I
Informational
Modules M, O

Elevation

Scale 1:12

12 in.
minimum

EMERGENCY EVACUATION PLAN
BUILDING 50 MAIN LEVEL

ALS Staff Directory

222	Elizabeth Saucier
224	Judy Zelver
226	Jim Krupnick
228	Ben Feinberg
230	Ruth Pepe
232	Brian Kincaid
233	Joe Harkins
235	Visitor
238	Charles Kim
240	Alan Jackson
241	Visitor
242	Ronnie Nelson
242A	Rod Keller
244	Dave Robin
246	Hiroshi Nishimura
247	Dexter Massoletti
248	John Byrd

O

Reference Line
60 in. (1524mm)

M

Sign top height = 1840mm

Sign top height = 1840mm

Group I
Orientation
Module A

Elevation
Scale 1:12

Building 50 Directory

A

Sign top height = 1840mm

Reference Line
60 in. (1524mm)

Building 50 Directory

A (at accessible entrance)
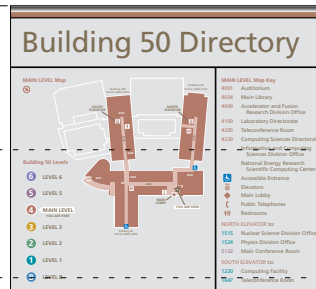
Sign top height = 1524mm

Eye level for wheelchair users:
1090–1295mm (43–51 in)

Group I
Orientation
Module B

Elevation
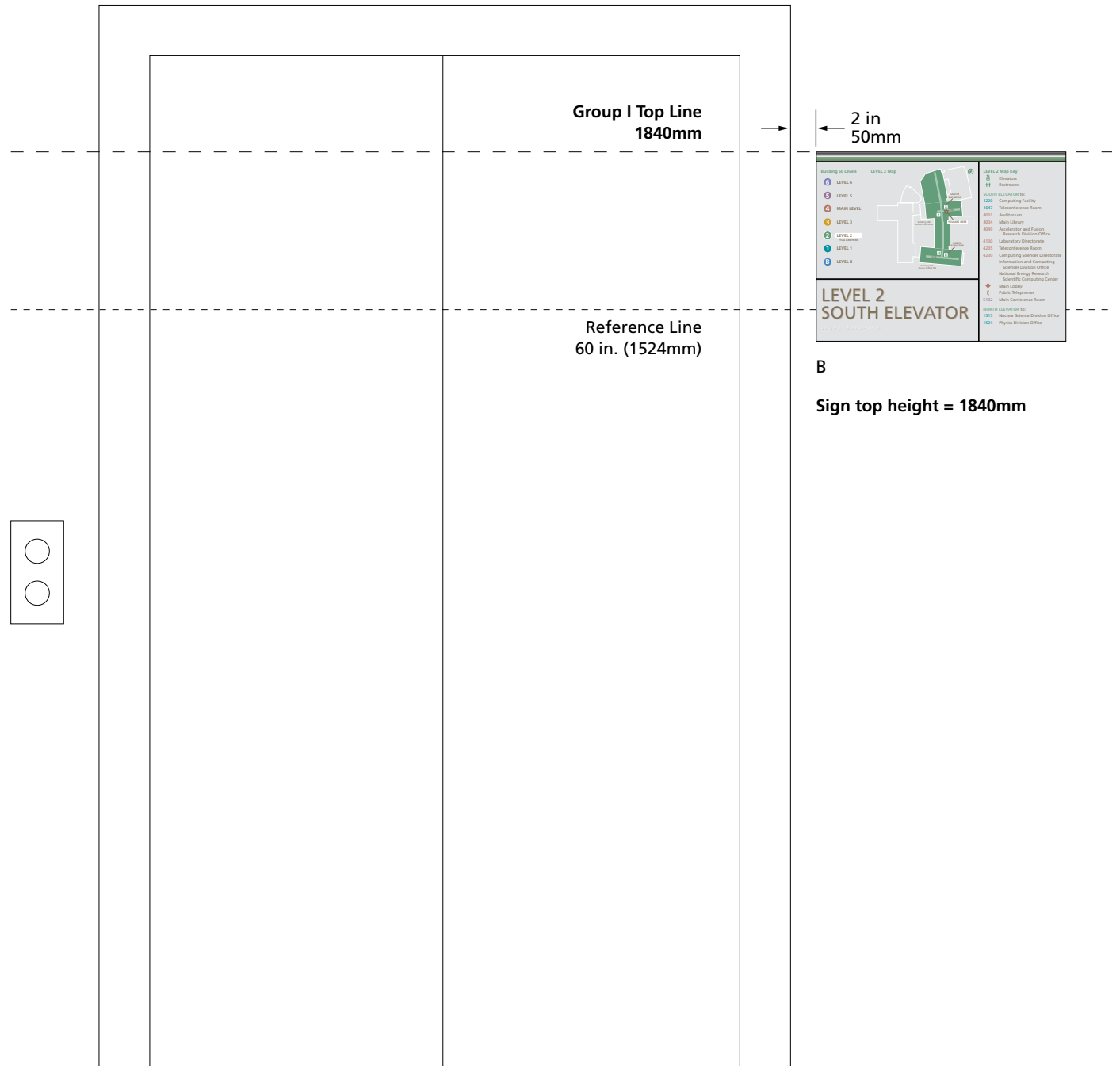
Scale 1:12

**Group I Top Line
1840mm**

2 in
50mm

Reference Line
60 in. (1524mm)

B

Sign top height = 1840mm

Group I
Orientation
Module N

Elevation

Scale 1:12

2 in
50mm

**Group I Top Line
1840mm**

2

LEVEL 2
EAST STAIRS
ROOF ACCESS
LEVELS 1–3

Reference Line
60 in. (1524mm)

N

Sign top height = 1840mm
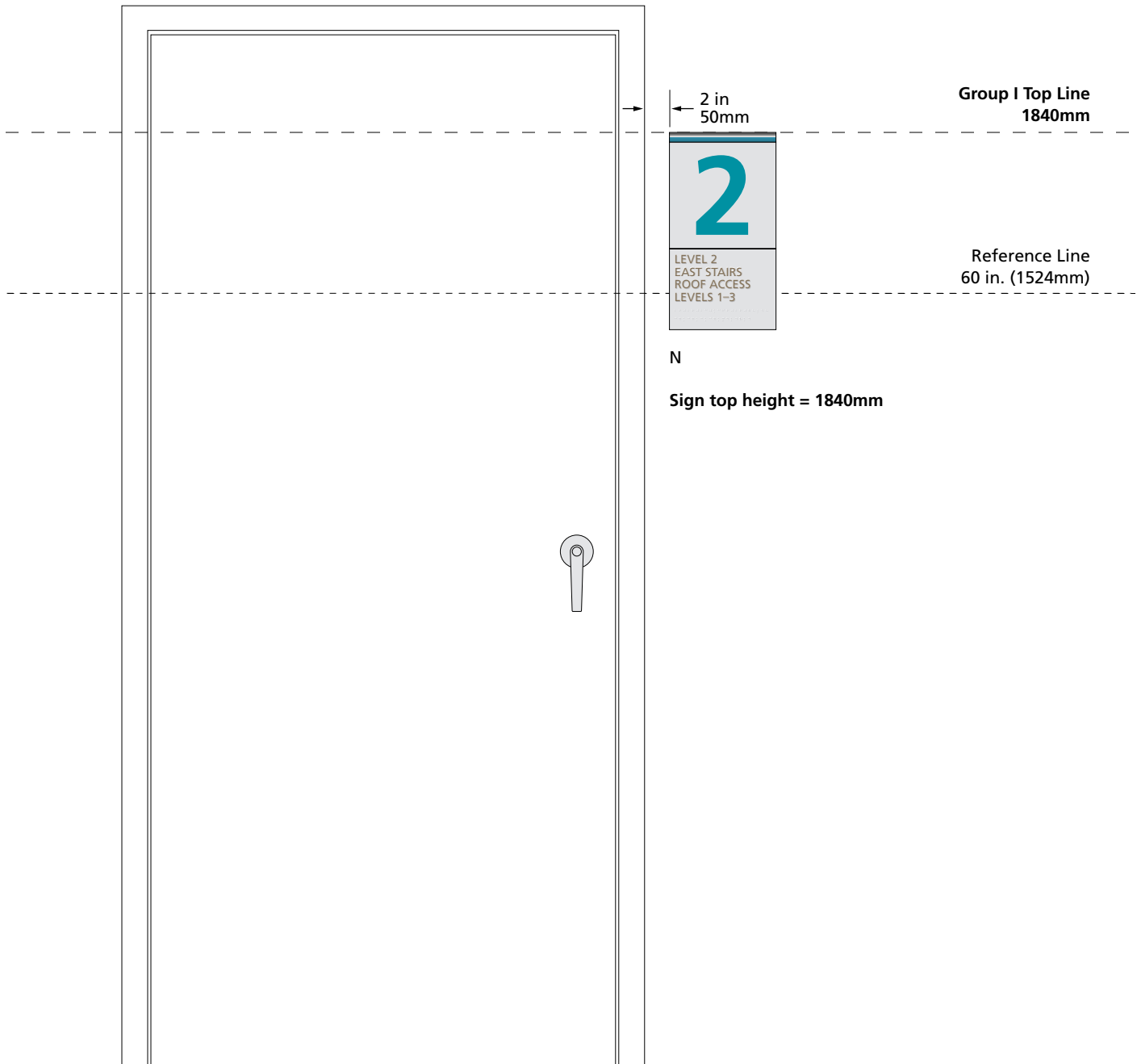
Group II
Identification
Module C

Elevation

Scale 1:12

2 in
50mm

Reference Line
60 in. (1524mm)

RESTROOM

C

**Group II Base Line
1461mm**

Sign base height = 1461mm
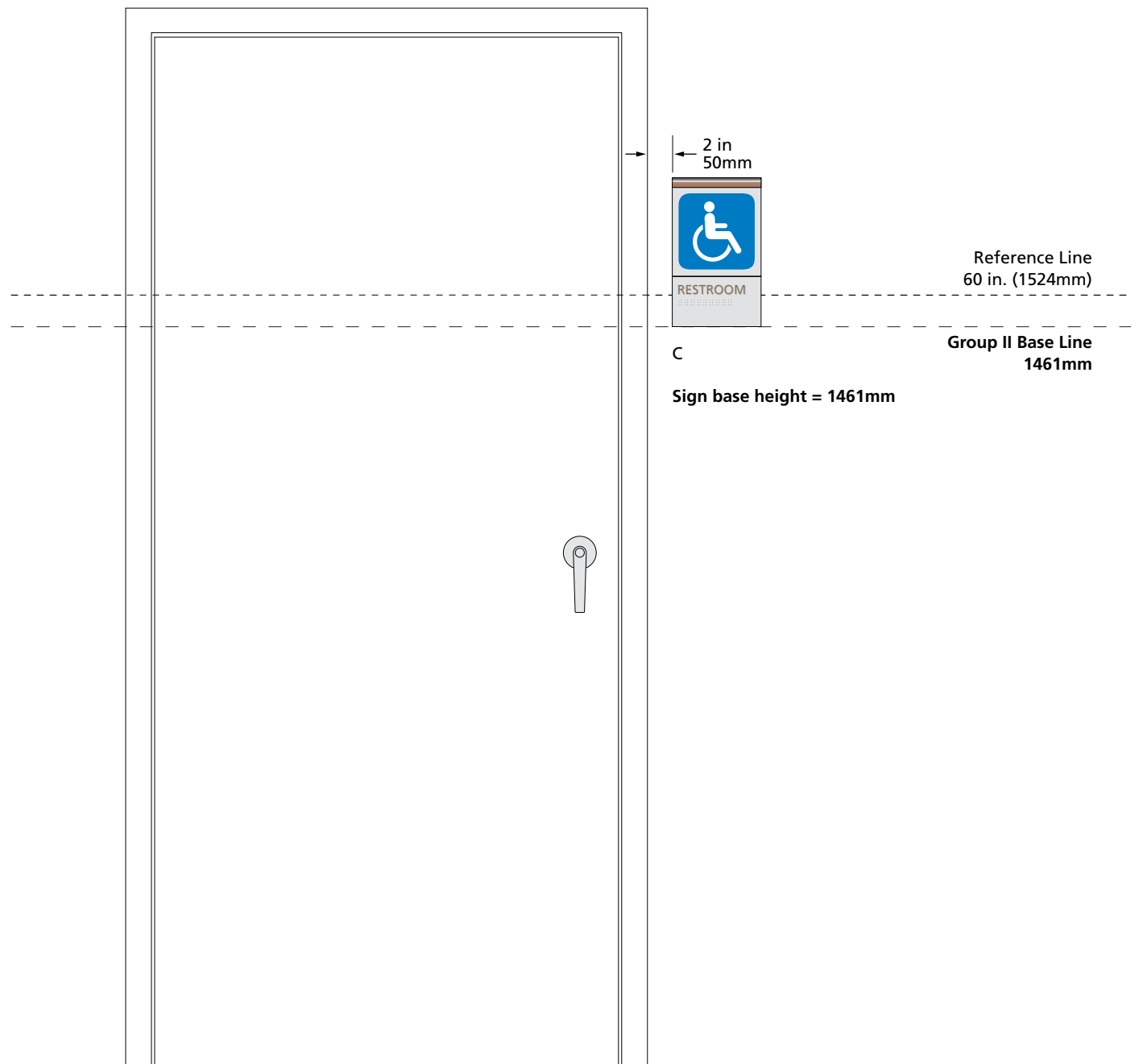
Group II
Identification
Module D

Elevation
Scale 1:12

2 in
50mm

4001 AUDITORIUM

Reference Line
60 in. (1524mm)

Module D

**Group II Base Line
1461mm**

Message area (125mm) centers
vertically on 60 in.

Sign base height = 1461mm
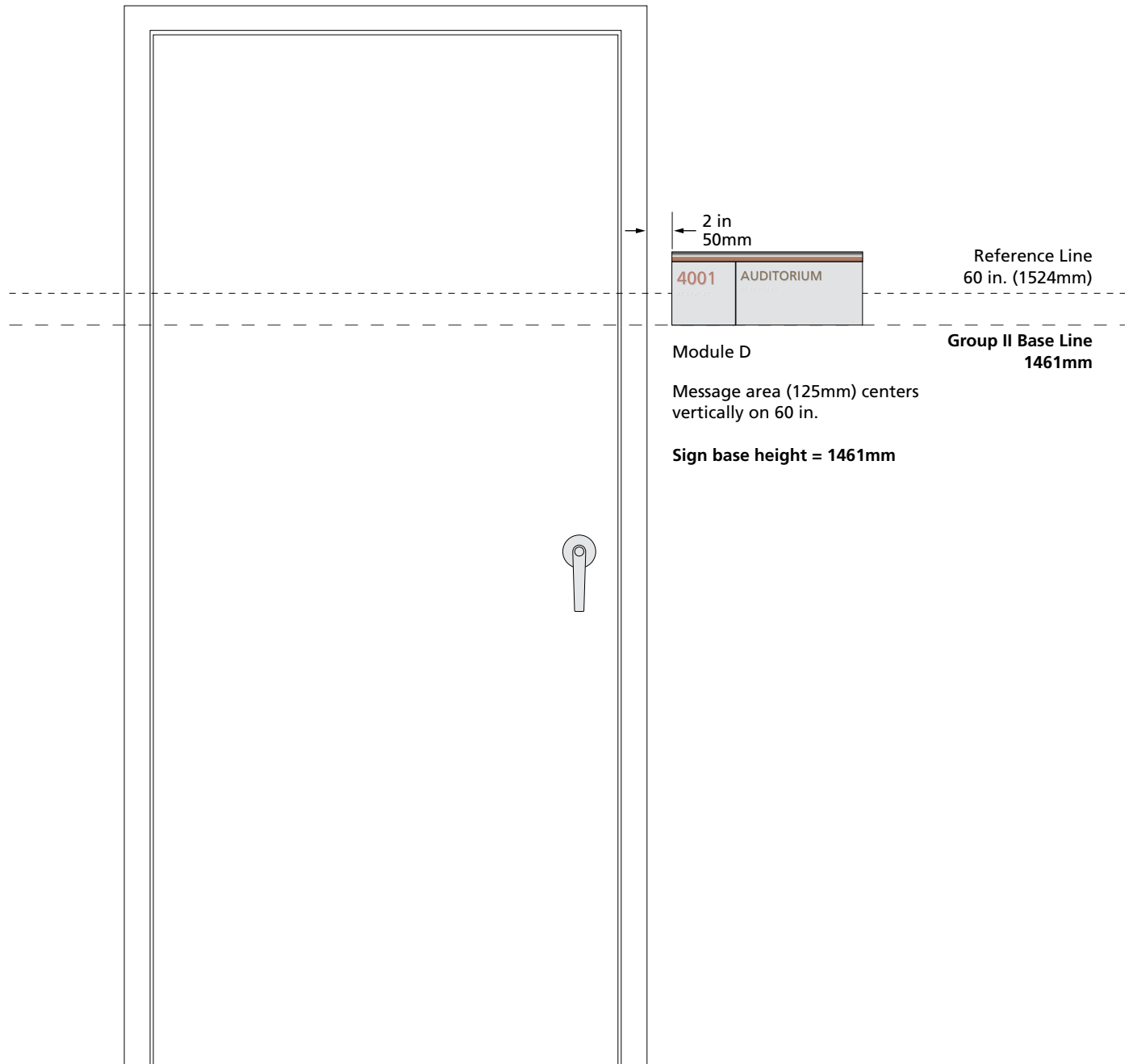
Group II
Identification
Module E

Elevation
Scale 1:12

2 in
50mm

4240

Bill McCurdy

E

Reference Line
60 in. (1524mm)

**Group II Base Line
1461mm**

Message area (125mm) centers
vertically on 60 in.

Sign base height = 1461mm
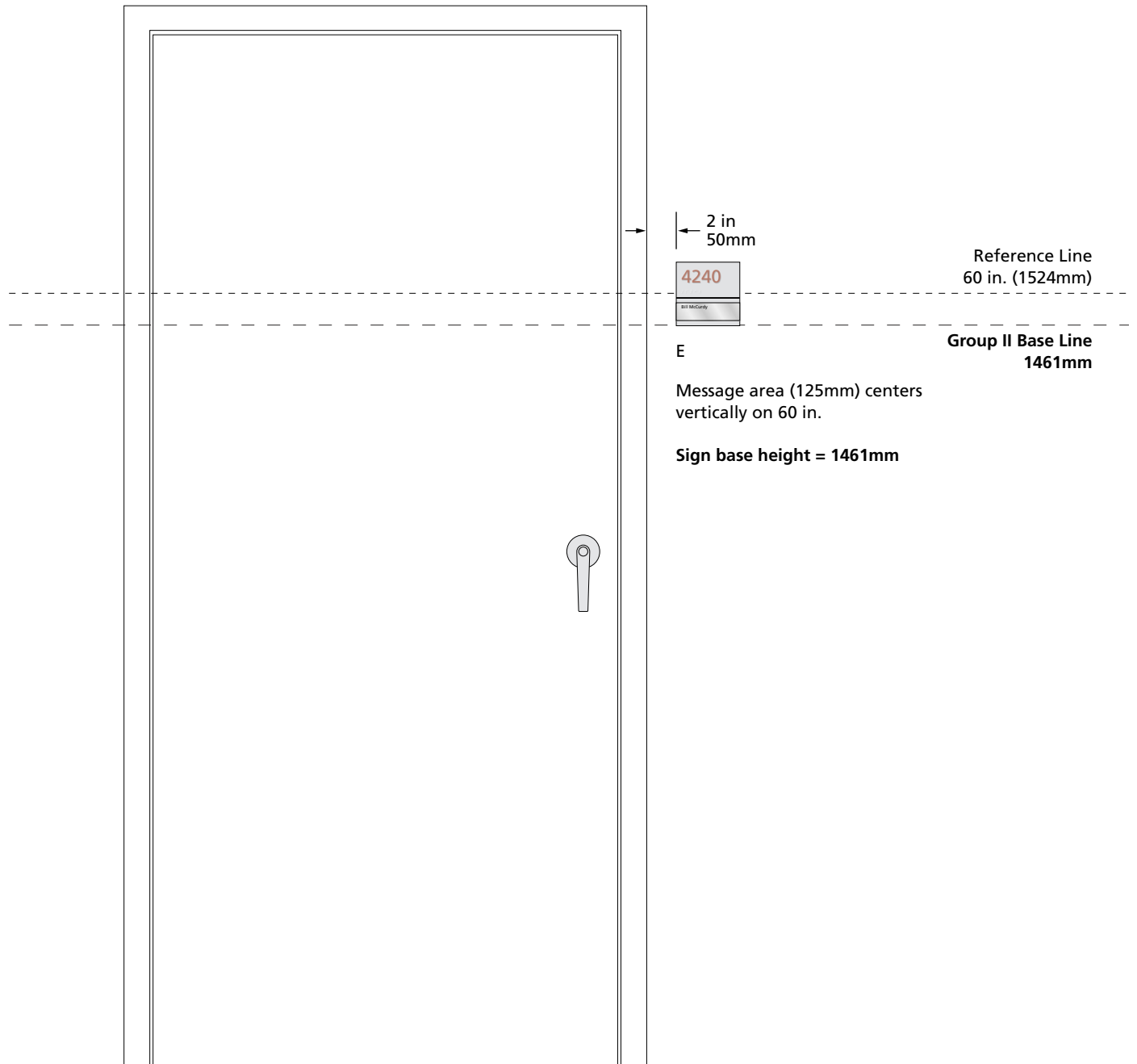
Group II
Identification
Module S

Elevation

Scale 1:12

2 in
50mm

MEN

Reference Line
60 in. (1524mm)

S

**Group II Base Line
1461mm**

Sign base height = 1461mm
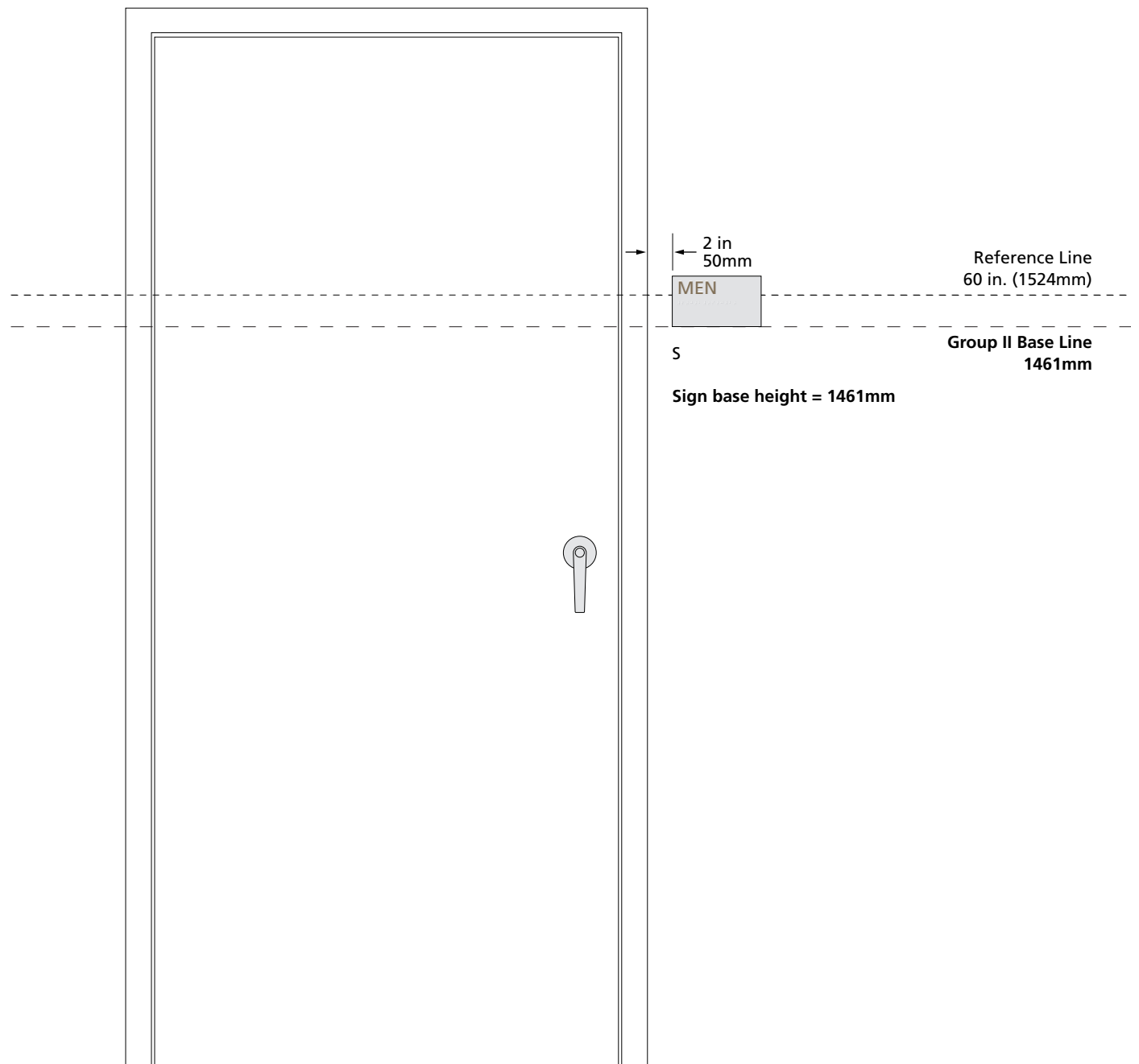
Group III
Identification
Module K, L

Elevation

Scale 1:12

center horizontally on door

**Group III Top Line
1676mm**

Reference Line
60 in. (1524mm)

K (L is similar)

Sign top height = 1676mm
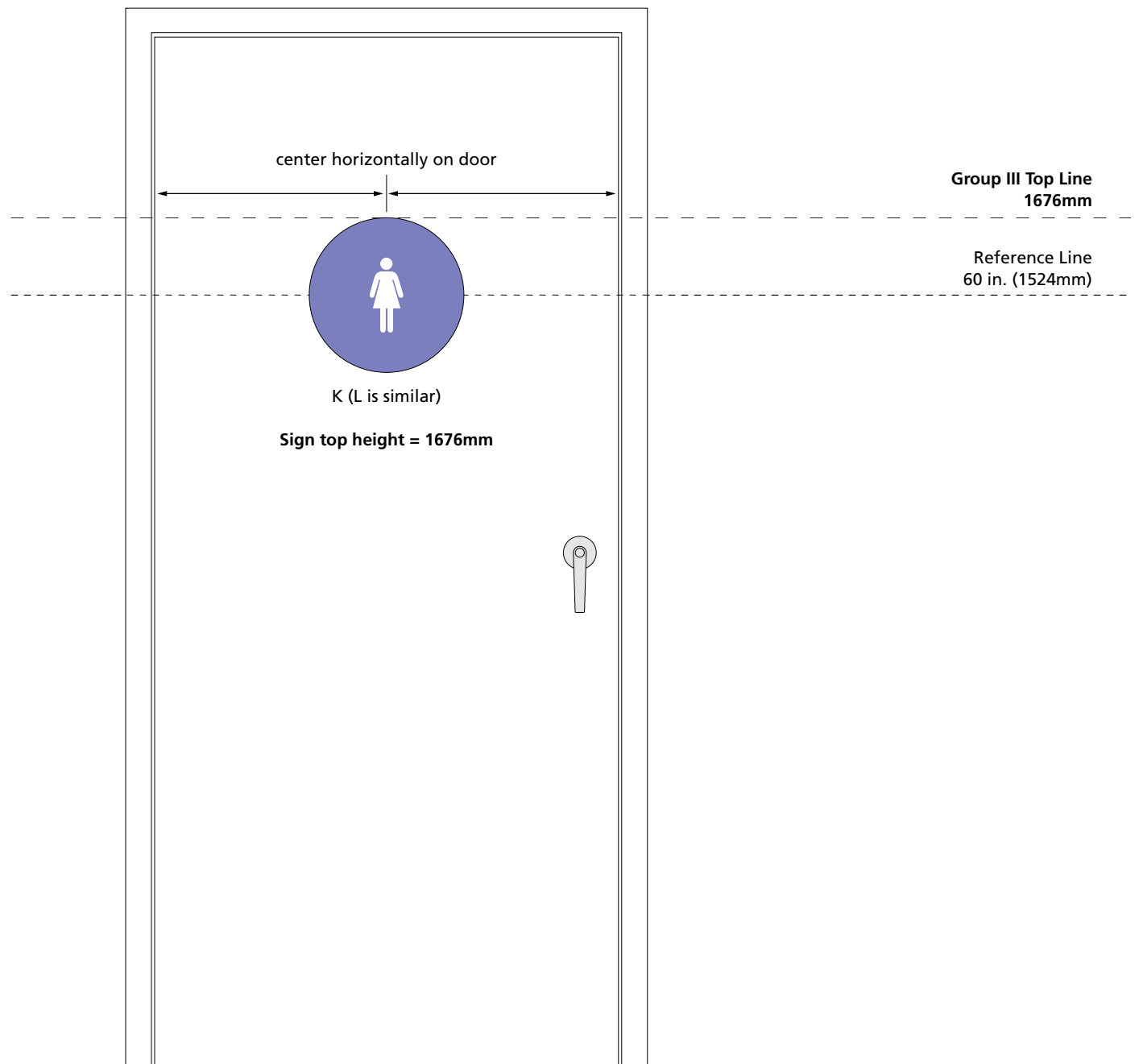
Group IV
Identification
Module J

Elevation

Scale 1:12

center horizontally on door

Group IV Top Line
1680mm

Reference Line
60 in. (1524mm)

J

Sign top height = 1680mm
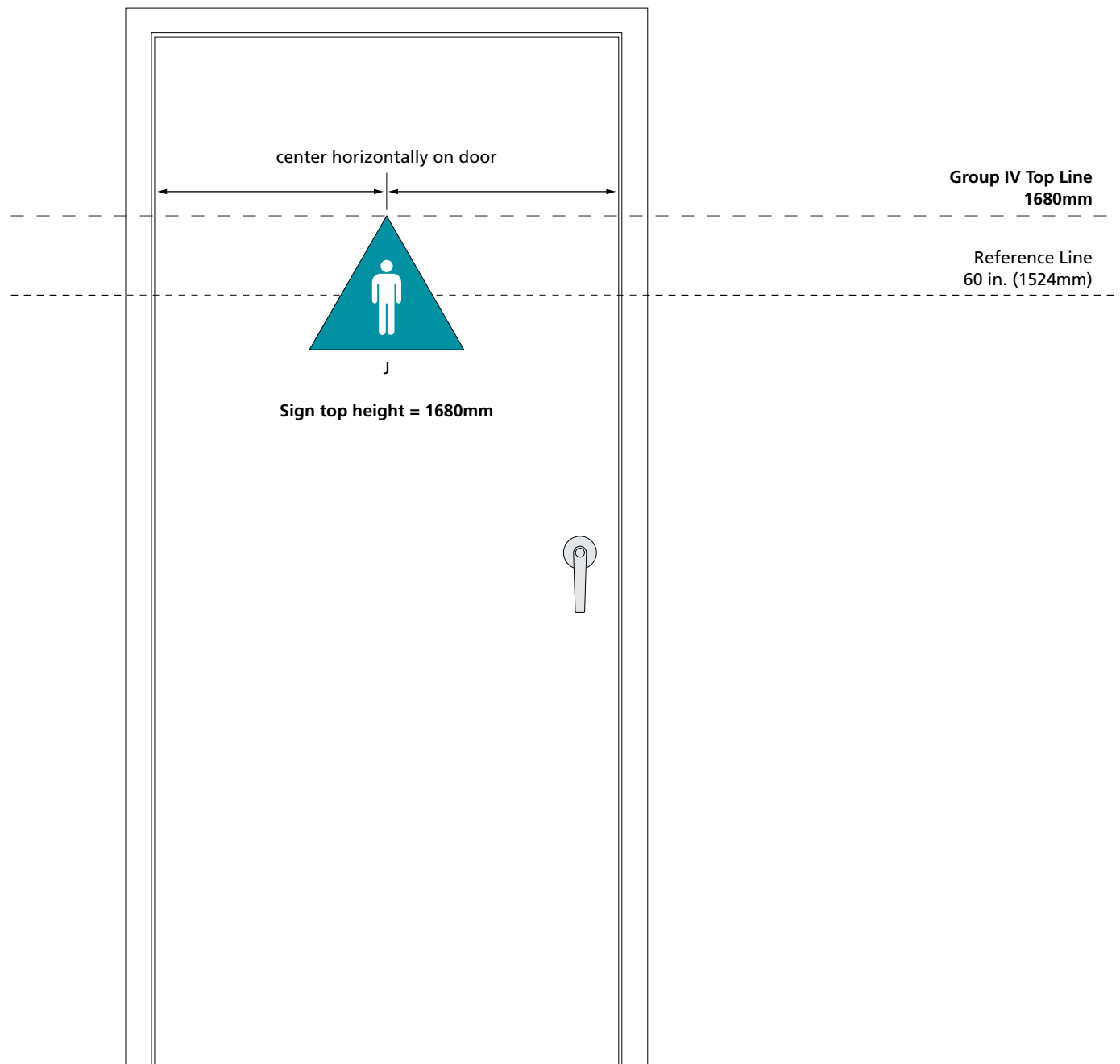
Group V
Directional
Module P

Elevation

Scale 1:12

center horizontally over door (typical)

↑ 80 **Building 80** 80 ↑

**Group V
Minimum
2134mm**

P

Sign height = site specific

Reference Line
60 in. (1524mm)
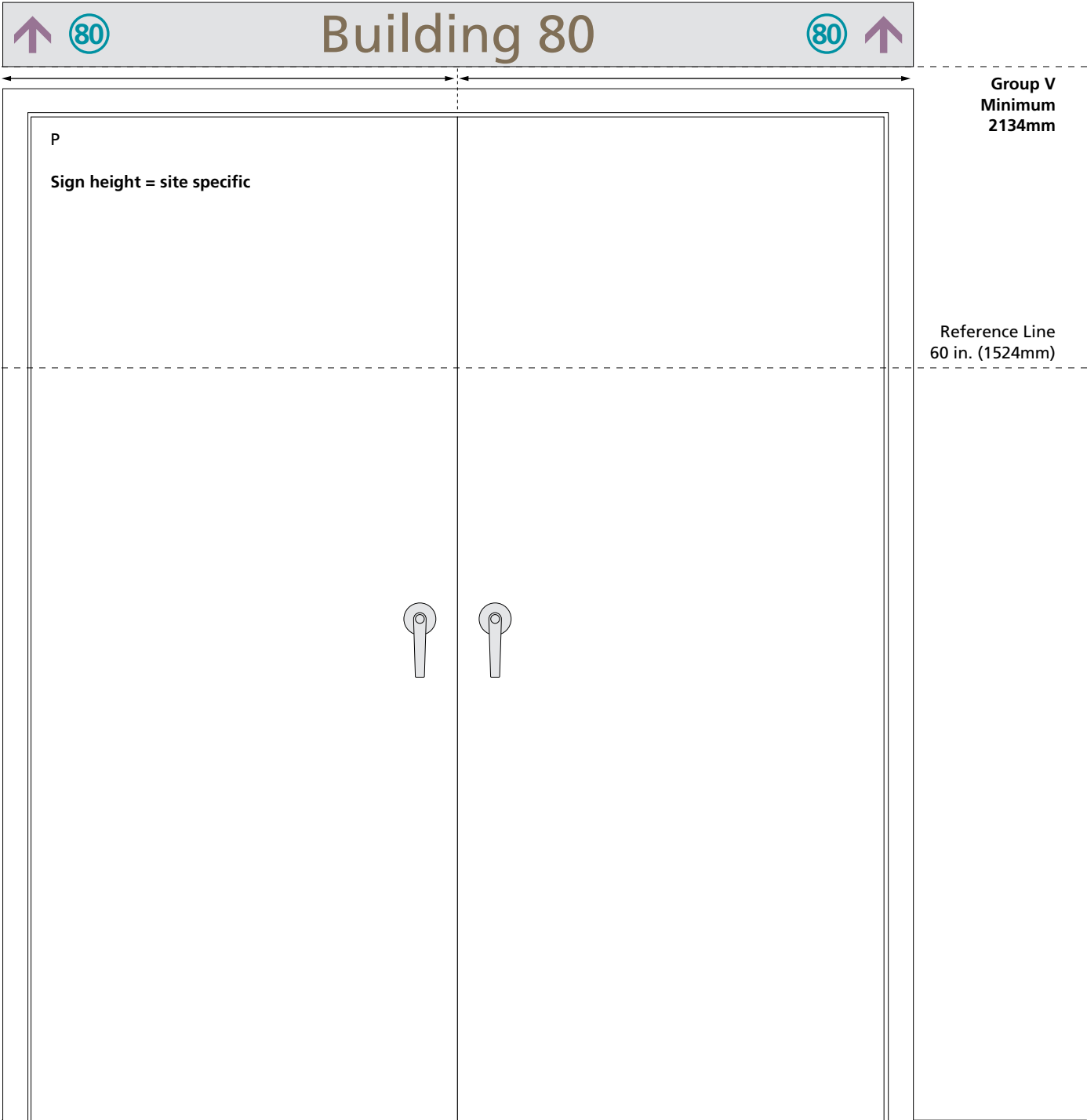
Group V
Directional
Module Q

Elevation

Scale 1:12

to ceiling

← ⚹ Stairs to LEVEL B

Q

**Group V Minimum
2134mm**

Sign height = site specific

Reference Line
60 in. (1524mm)
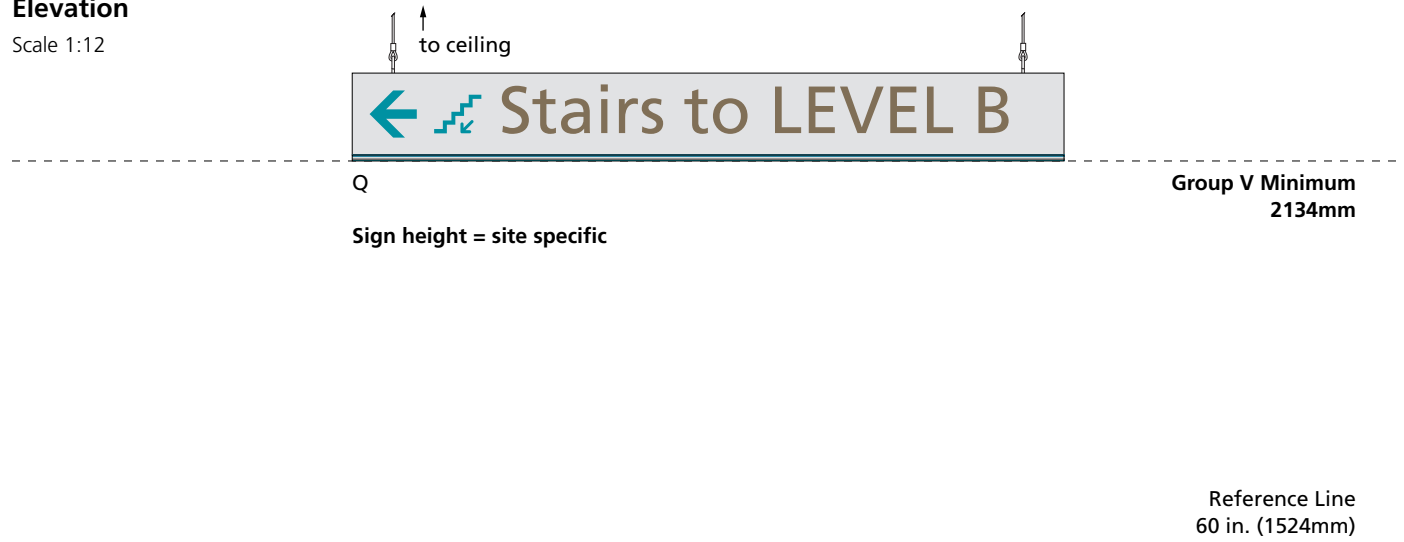
Interior Module Descriptions

Module F
Directional Primary
DP.000.F

Module F is used exclusively for directional information. It consists of a Base Panel and Header Strip to which are added various combinations of Arrow Strips and Single or Double message strips, as needed. "Leftover" space after all messages are accommodated is filled with blank Single Strips. The Footer Strip is a blank Single Strip attached to "finish" the bottom edge. The Footer Strip is always left blank and clear of message.

←	MAIN LEVEL
◆	Main Lobby
(	Public Telephones
→	
4049	Accelerator and Fusion Research Division
4100	Laboratory Directorate
⬍	North Elevator to:
1515	Nuclear Science Division
1524	Physics Division
5132	Main Conference Room

Module F
Construction

Scale 1:8

HEADER STRIP

1ST ARROW STRIP

SINGLE STRIP

2ND ARROW STRIP

DOUBLE STRIP

BASE PANEL

FOOTER STRIP
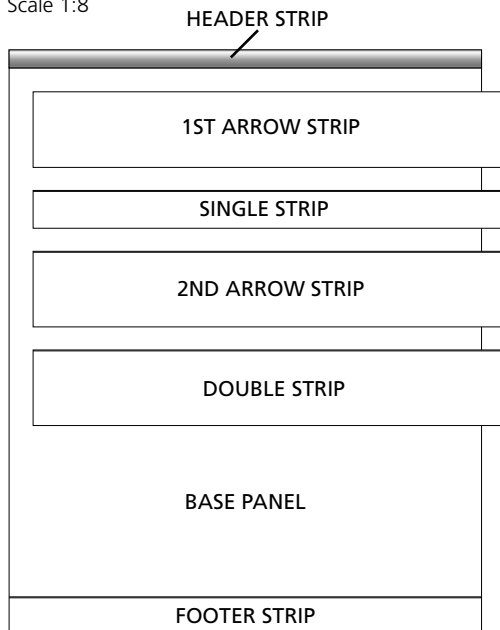
DP.000.F

Module F Dimensions

PANEL	W x H (mm)	MATERIAL	DETAIL	STATUS
Base Panel	500 x 619*	1/8" acrylic		Permanent
Header Strip	500 x 19	3/4" aluminum half-round		Permanent
1st Arrow Strip	500 x 80	1/8" acrylic		Removable
2nd Arrow Strip	500 x 80	1/8" acrylic	Dado/top	Removable
Single Strip	500 x 40	1/8" acrylic	Dado/top	Removable
Double Strip	500 x 80	1/8" acrylic	Dado/top	Removable
Footer Strip	500 x 40	1/8" acrylic	Dado/top	Removable

* Note: In one case, where the presence of permanent wall-mounted hardware conflicted with proper sign placement, it was found expedient to shorten the Base Panel and use fewer message strips (9 instead of 12). This is allowable so long as: 1) the Base Panel is shortened in 40 mm increments; 2) the Footer Strip is left blank; and 3) the mounting height measured from the top of the sign remains consistent.

Module F
Graphic Specifications

Scale 1:2

1st Arrow Strip

| | 0 | 12.5mm | | 67.5 | | | 487.5 | 500 |

MAIN LEVEL

16

34

ARROW
Color: C(L)

LEVEL IDENTIFICATION
Color: C(L)

Double Strip

0 12.5mm 67.5 87.5 107.5

16

34

46

64

4049 Acce

Div

ROOM NUMBER
Color: C(L)

MESSAGE TEXT
Color: C2

Single Strip

0 12.5mm 87.5

11

29

4100 Lab

ROOM NUMBER
Color: C(L)

Single Strip with Pictograph

0 40

5

35
40

Ele
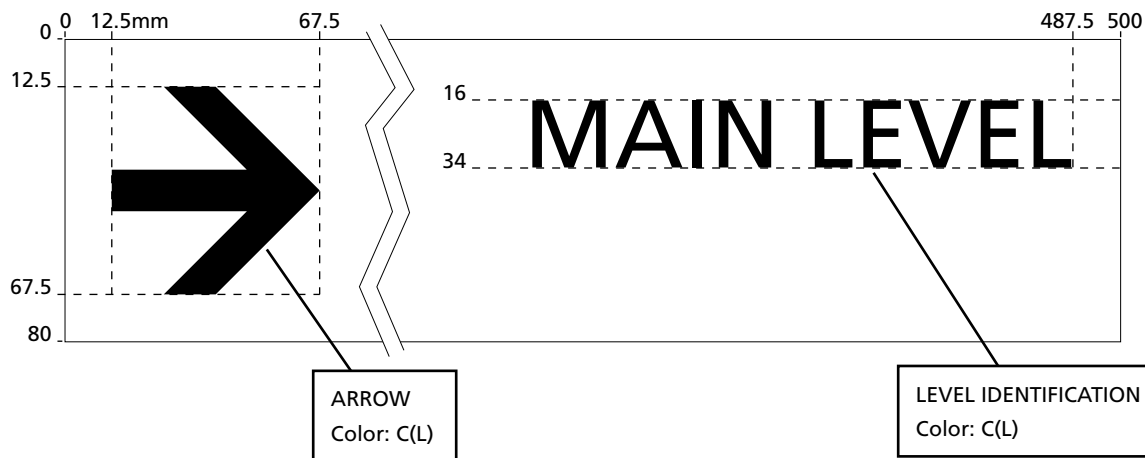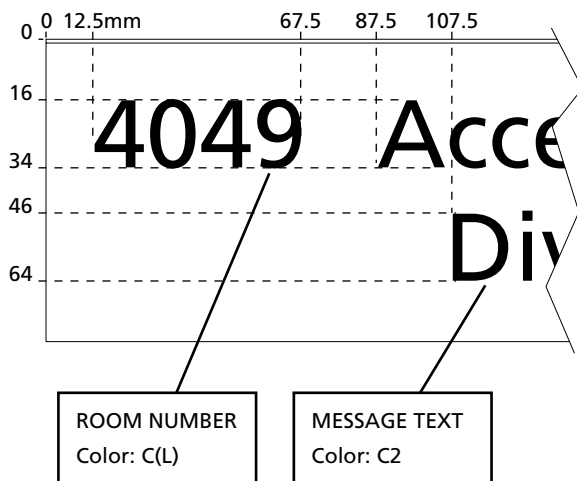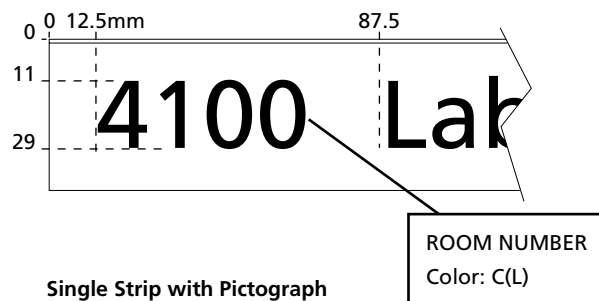
PICTOGRAPH
Color: C(L)
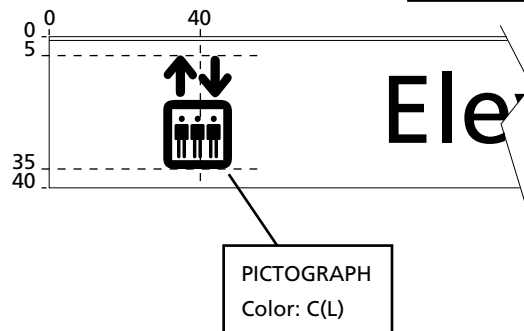
Module G
Directional Secondary
DS.000.G

Module G is used exclusively for directional information. It consists of a Base Panel and Header Strip to which are added various combinations of Arrow Strips and Single or Double message strips, as needed. "Leftover" space after all messages are accommodated is filled with blank Single Strips. The Footer Strip is a blank Single Strip attached to "finish" the bottom edge.

Module G is identical to Module F except for its vertical dimension. Module G is used in cases where there are six or fewer lines of messages.

Module G
Construction

Scale 1:8

HEADER STRIP

1ST ARROW STRIP

DOUBLE STRIP or 2ND ARROW STRIP

SINGLE STRIP

BASE PANEL

FOOTER STRIP
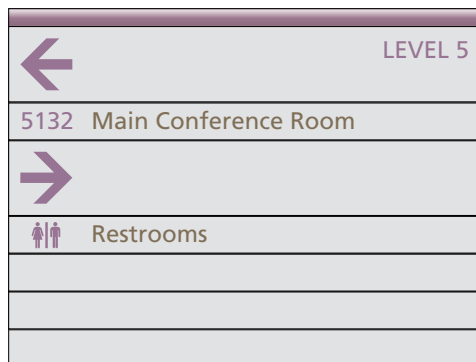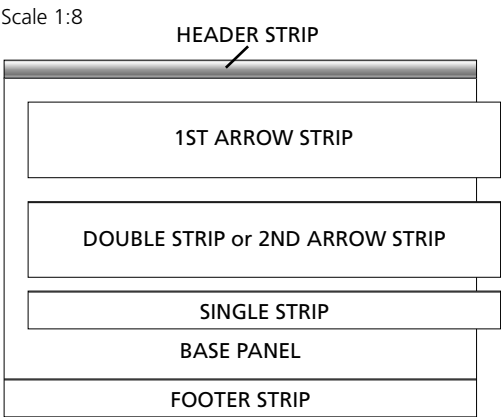
DS.000.G

Module G Dimensions

PANEL	W x H (mm)	MATERIAL	DETAIL	STATUS
Base Panel	500 x 379	1/8" acrylic		Permanent
Header Strip	500 x 19	3/4" aluminum half-round		Permanent
1st Arrow Strip	500 x 80	1/8" acrylic		Removable
2nd Arrow Strip	500 x 80	1/8" acrylic	Dado/top	Removable
Single Strip	500 x 40	1/8" acrylic	Dado/top	Removable
Double Strip	500 x 80	1/8" acrylic	Dado/top	Removable
Footer Strip	500 x 40	1/8" acrylic	Dado/top	Removable

Module G
Graphic Specifications

Scale 1:2

1st Arrow Strip

0 12.5mm   67.5   487.5 500
0

12.5

16

34

MAIN LEVEL

67.5

80

ARROW
Color: C(L)

LEVEL IDENTIFICATION
Color: C(L)

Double Strip

0 12.5mm   67.5   87.5   107.5
0

16

34

46

64

4049 Acce

Div

ROOM NUMBER
Color: C(L)

MESSAGE TEXT
Color: C2

Single Strip

0 12.5mm   87.5
0

11

29

4100 Lab

ROOM NUMBER
Color: C(L)

Single Strip with Pictograph

0   40
0
5

35
40

Ele
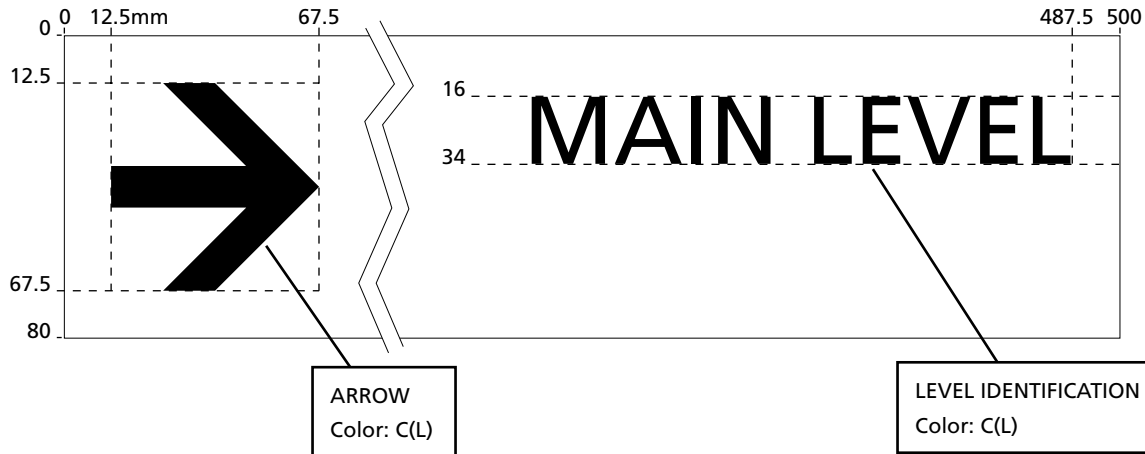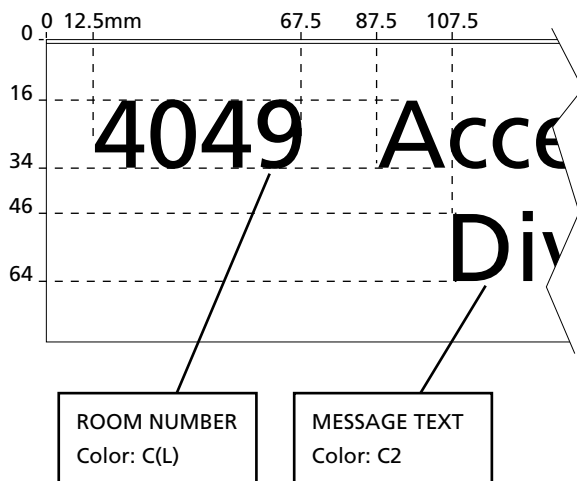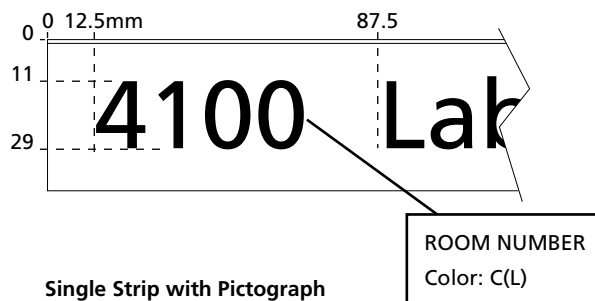
PICTOGRAPH
Color: C(L)
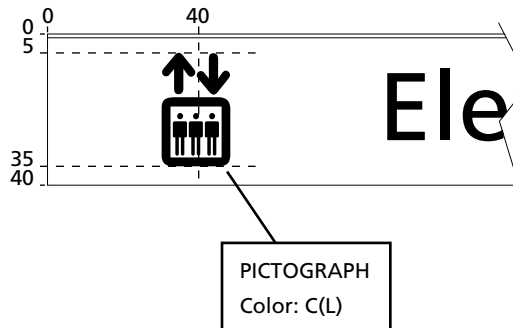
Module H
Directional Tertiary
DT.000.H

Module H is used to enhance wayfinding to a single destination. It consists of a Base Panel and Header Strip to which are added an Arrow Panel and Text Panel. These panels are removable so that the unit can be repositioned and reused if necessary.

TYPE SIZE: 18mm Cap Height (72 point)

ARROW: 55 x 55mm
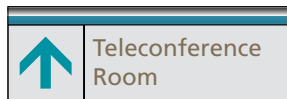
Module H
Construction

Scale 1:4

DT.000.H
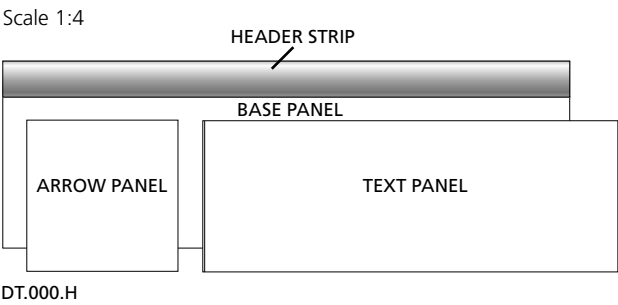
Module H Dimensions

PANEL	W x H (mm)	MATERIAL	DETAIL	STATUS
Base Panel	300 x 99	1/8" acrylic		Permanent
Header Strip	300 x 19	3/4" aluminum half-round		Permanent
Arrow Panel	80 x 80	1/8" acrylic		Removable
Text Panel	220 x 80	1/8" acrylic	Dado/left	Removable

Module H
Graphic Specifications

Scale 1:4

80/0

0 12.5   67.5   10   220 (300)

0

12.5

67.5

80

16
34
46
64

Main Computer Room

DT.000.H

HEADER STRIP
Color: C(L) special

ARROW
Color: C(L)

MESSAGE TEXT
Color: C2
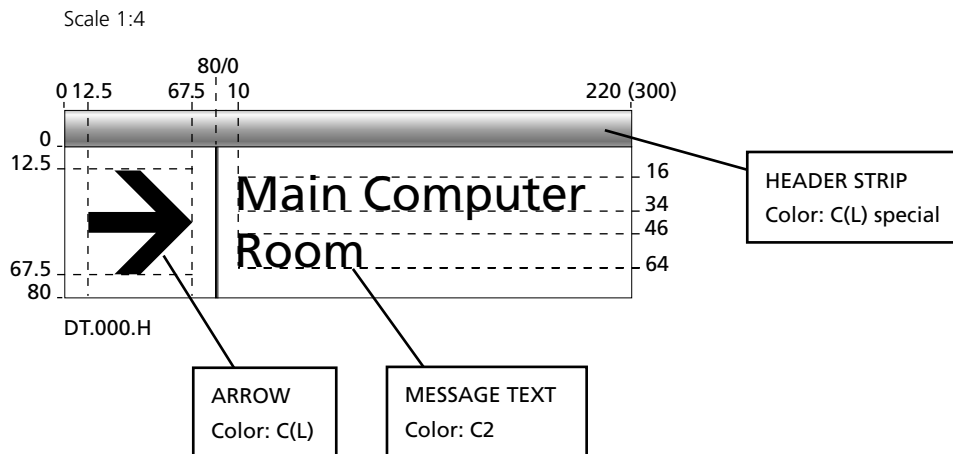
Module P
Directional Primary, Ceiling-Mount
DPC.000.P

Module P is used exclusively for directional information. It consists of a Base Panel on which arrows, pictographs and messages are directly applied. Module P is generally mounted on walls above doors and entrances.

Module P is not strictly a "module" in the sense that the other module types have fixed dimensions. The P Module is a general description of a graphic specification, material specification, and mounting method, but the actual dimensions of each unit are site-specific. Drawings will be provided for detail dimensions.

← ⟋ Stairs to LEVEL 2   Elevator ▯ →
  ⟋ Stairs to LEVEL B

↑ ⑥ ALS Experimental Floor
↖ ▯ Elevator

↑ ⑧⓪   Building 80   ⑧⓪ ↑

Directional Modules

3.01.11
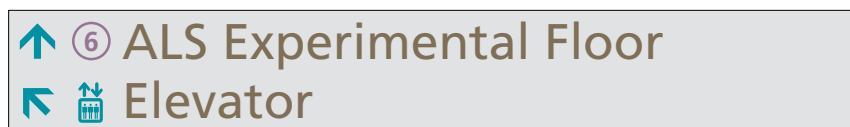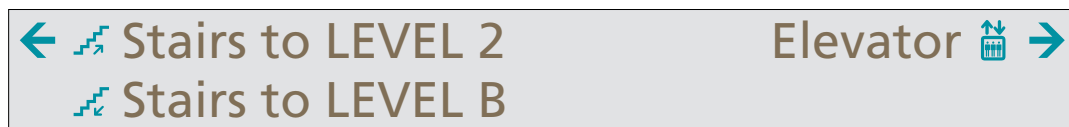
Module P
Construction

Scale 1:16

| | | MESSAGE 1 | | | MESSAGE 3 | | |
| MESSAGE 2 | | MESSAGE 4 |

DPC.114.P

| | | MESSAGE 1 | | |
| | | MESSAGE 2 | | |

DPC.115.P

| | | MESSAGE 1 | | |
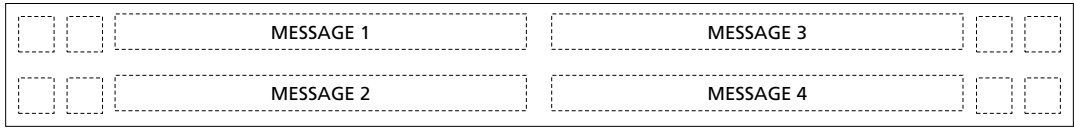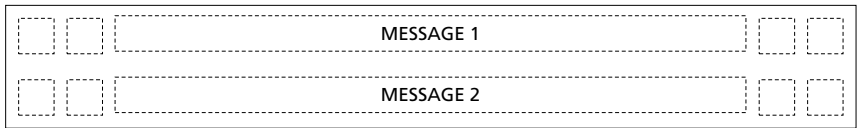
DPC.119.P

Module P Dimensions (three versions shown)

PANEL	W x H (mm)	MATERIAL	DETAIL	STATUS
114 Base Panel	2260 x 260	3/8" acrylic		Removable
115 Base Panel	1800 x 260	3/8" acrylic		Removable
119 Base Panel	1830 x 130	3/8" acrylic		Removable

Module P
Graphic Specifications

Scale 1:8

DPC.114.P (left detail)

DPC.114.P (right detail)

MESSAGE TEXT
Color: C2
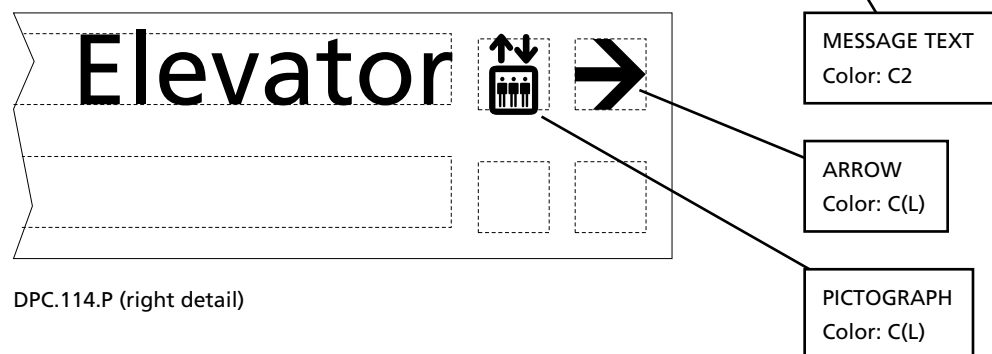
ARROW
Color: C(L)

PICTOGRAPH
Color: C(L)
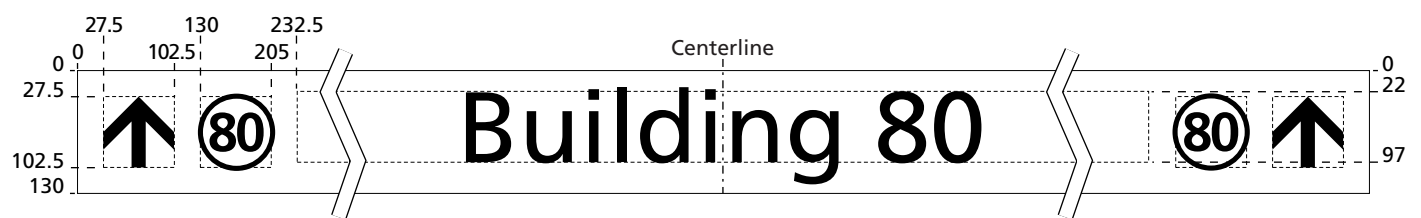
DPC.119.P

Module Q
Directional Secondary, Ceiling-Mount
DSC.000.Q

Module Q is used exclusively for directional information. It consists of a two-sided Base Panel on which arrows, pictographs and messages are directly applied. A Header Strip of the same type as used in the other modules is here used as a bottom cap. Module Q is hung by cables or rods from the ceiling in corridors and walkways. The length of the unit may vary due to the number of messages or space constraintes. Drawings will be provided for detail dimensions of specific applications.
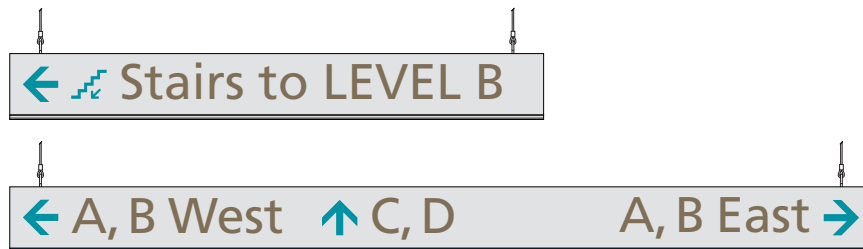
Module Q
Construction

Scale 1:8

MESSAGE A

DSC.000a.Q

Module Q Dimensions (typical)

PANEL	W x H (mm)	MATERIAL	DETAIL	STATUS
Base Panel	1130 x 130	3/4" hollow aluminum box		Permanent
Header Strip	500 x 19	3/4" aluminum half-round		Permanent

Module Q
Graphic Specifications
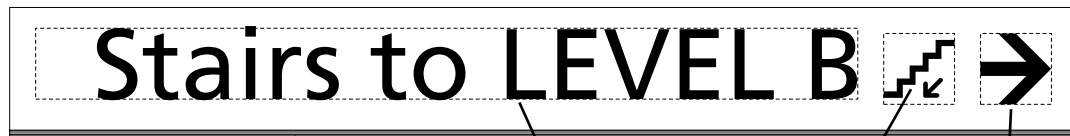
Scale 1:8

DSC.113.Q (Side A)

Stairs to LEVEL B

DSC.113.Q (Side B)

Stairs to LEVEL B

TRIM STRIP	MESSAGE TEXT	PICTOGRAPH	ARROW
Color: C(L) special	Color: C2	Color: C(L)	Color: C(L)

A, B West ↑ C, D

message areas of equal lengths   center on sign unit
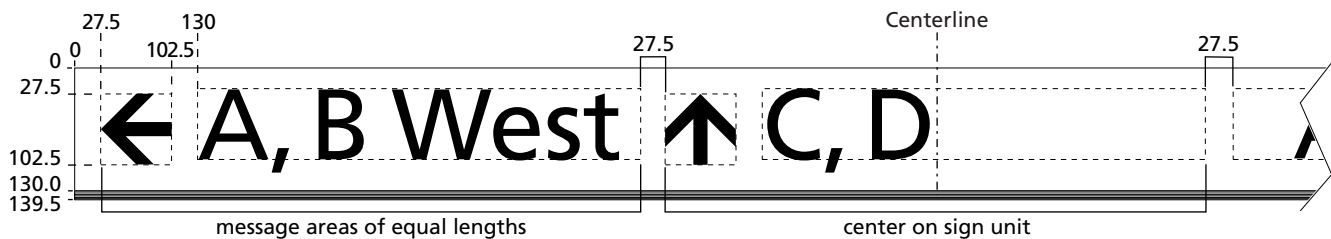
DSC.000.Q (variation)

Module C
Identification Tertiary
IT.000.C

Module C is used for accessible restroom identification and
for level orientation (see page 3.04.07). It consists
of a Base Panel and Header Strip to which are added a
Pictograph Panel and an ADA-compliant tactile message
panel. The specification for general restroom identification
was changed on 7.21.98 to Module S (see page 3.02.20).

Module IT.000.C
Construction
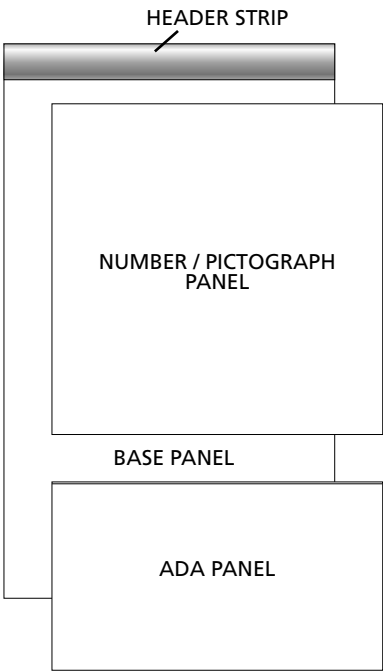
Scale 1:4

HEADER STRIP

NUMBER / PICTOGRAPH
PANEL

BASE PANEL

ADA PANEL

OLI.000.C / IT.000.C / NTB.000.C

Module Dimensions

PANEL	W x H (mm)	MATERIAL	DETAIL	STATUS
Base Panel	175 x 294	1/8" acrylic		Permanent
Header Strip	175 x 19	3/4" aluminum half-round		Permanent
Pictograph Panel	175 x 175	1/8" acrylic		Permanent
ADA Panel	175 x 100	1/8" photopolymer	Dado/top	Permanent

Module IT.000.C
Graphic Specifications

Scale 1:4

HEADER STRIP
Color: C(L) special

PICTOGRAPH
Color: P300, WH

RESTROOM

TACTILE LETTERS
Color: C2

IT.000.C

BRAILLE
Color: C1
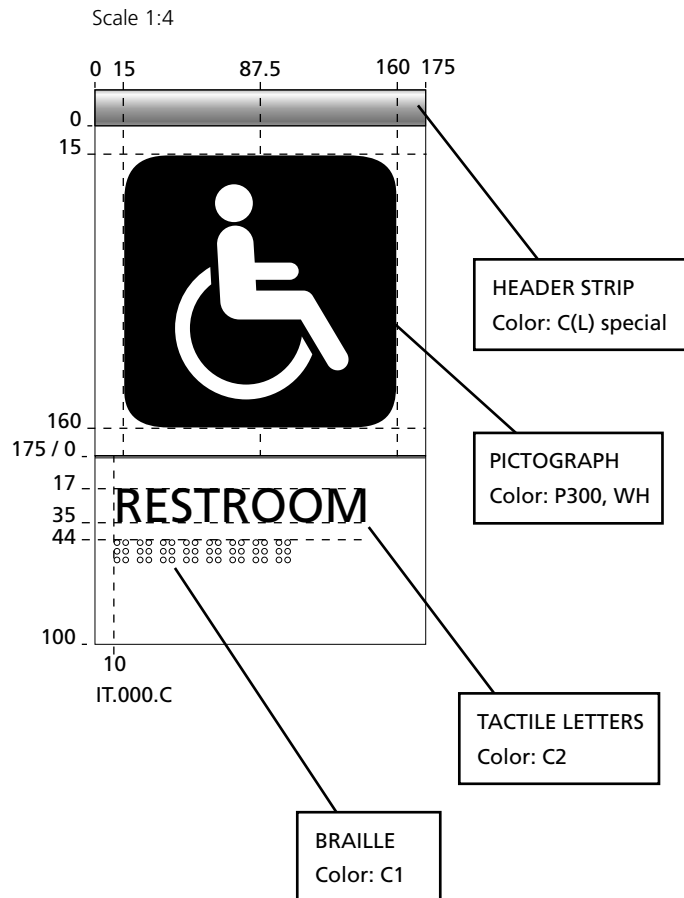
Module D
Identification Primary, ADA Text
IPA.000.D

Module D is used for identification of primary destinations. There are two types of primary destinations. The first type of primary destination includes the offices of divisions, departments, directors, and directorates, entities labeled "office" such as the Office of Community Relations, centers, and major laboratories. For this type of destination use the IPN variant of Module D (see 3.02.07). The second type includes permanent multi-user facilities such as libraries, auditoriums and major conference rooms. The IPA variant of Module D is used for identification of this second type of destination. Messages appropriate for this module will usually consist of one or two words. Personal names and titles are not appropriate for this module.

The Identification Primary, ADA Text module consists of a Base Panel and Header Strip to which are added an ADA Number Panel and an ADA-compliant tactile message panel.

ADA NUMBER TYPE SIZE: 25mm Cap Height (100 point)

ADA TEXT TYPE SIZE: 18mm Cap Height (72 point)
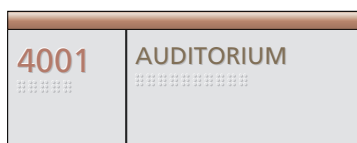
Module IPA.000.D
Construction

Scale 1:4

HEADER STRIP

BASE PANEL

ADA NUMBER PANEL
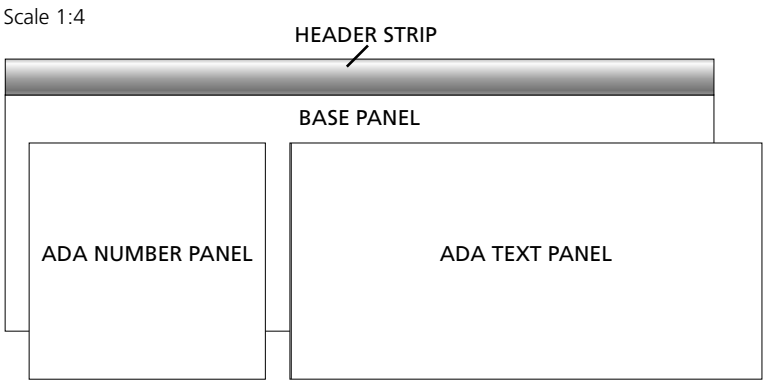
ADA TEXT PANEL

IPA.000.D

Module IPA.D Dimensions

PANEL	W x H (mm)	MATERIAL	DETAIL	STATUS
Base Panel	375 x 144	1/8" acrylic		Permanent
Header Strip	375 x 19	3/4" aluminum half-round		Permanent
ADA Number Panel	125 x 125	1/8" acrylic		Permanent
ADA Text Panel	250 x 125	1/8" photopolymer	Dado/left	Permanent

Module IPA.000.D
Graphic Specifications

Scale 1:4

125 / 0

0 10   10   375

HEADER STRIP
Color: C(L) spec

0

20

4001   **AUDITORIUM**   20

45   38   47

54

125

IPA.000.D

BRAILLE
Color: C1

BRAILLE
Color: C1

TACTILE LETTERS
Color: C2

ROOM NUMBER
Color: C(L)
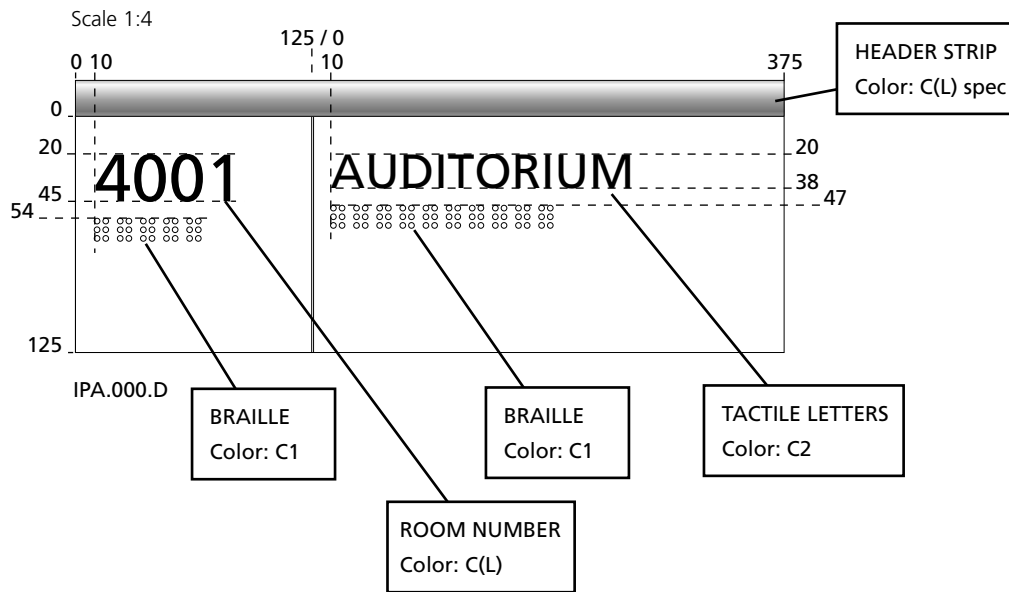
Module D
Identification Primary, Number
IPN.000.D

Module D is used for identification of primary destinations. There are two types of primary destinations. The first type of primary destination includes the offices of divisions, departments, directors, and directorates, entities labeled "office" such as the Office of Community Relations, centers, and major laboratories. The IPN variant of Module D is used for this type of destination. The second type includes permanent multi-user facilities such as libraries, auditoriums and major conference rooms. The IPA variant of Module D is used for this second type of destination (see 3.02.04).

This module can display the names of up to three destinations located in the same room; some of these names may run onto a second line of text. Personal names and titles are not appropriate for this module.

The Identification Primary, Number module consists of a Base Panel and Header Strip to which are added an ADA-compliant tactile number panel and a removable text panel.

Note: Typical message shown. Typographic conventions for different numbers of messages and character counts can be found in the sign module digital art files.

ADA NUMBER TYPE SIZE: 25mm Cap Height (100 point)

MESSAGE TYPE SIZE: 12mm Cap Height (50 point)

4112	Deputy Director, Operations
	Laboratory Counsel
	Public Communications Department

Special Case: In order to accommodate the lengthy message, a large (269mm) Base Panel was used with two each of the ADA Number Panel and Text Panel; and the type size for this unit has been reduced to 10mm (42 point). The line spacing is detailed on page 3.02.08.

This is the only example of this type convention in the current message schedule. In future applications of the program, other examples which require this treatment may be found. In general, this type of exception to the standard is to be avoided if possible

Special Case

4230	Computing Sciences Directorate
	Information and Computing Sciences Division
	National Energy Research Scientific Computing Division
	High Performance Computing Department
	Network and Telecommunications Department

Module IPN.000.D
Construction

Scale 1:4

HEADER STRIP

BASE PANEL

ADA NUMBER PANEL
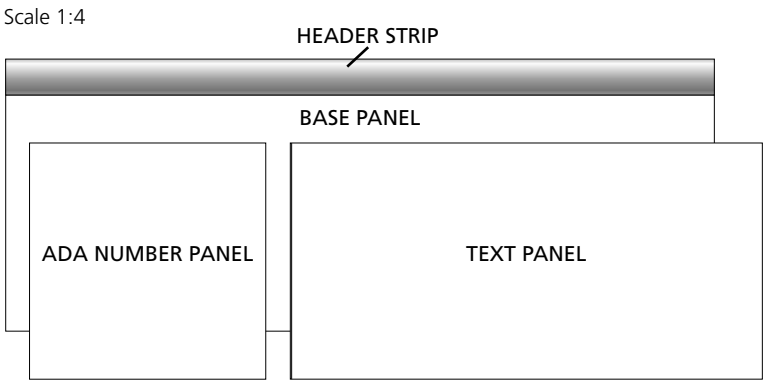
TEXT PANEL

IPN.000.D

Module IPN.D Dimensions

PANEL	W x H (mm)	MATERIAL	DETAIL	STATUS
Base Panel	375 x 144	1/8" acrylic		Permanent
Header Strip	375 x 19	3/4" aluminum half-round		Permanent
ADA Number Panel	125 x 125	1/8" photopolymer		Permanent
Text Panel	250 x 125	1/8" acrylic	Dado/left	Removable

Module IPN.000.D
Graphic Specifications

Scale 1:4

125 / 0

0 10   10 20

HEADER STRIP
Color: C(L) special

0   0

20   20
32
4049   Accelerator and Fusion   40
45   Research Division Office   52
54
68
Office of Workforce   80
88
Diversity   100

125   125

IPN.000.D

BRAILLE
Color: C1

ROOM NUMBER
Color: C(L)

MESSAGE TEXT
Color: C2

Special Case

125 / 0

0 10   10 20

0   0

20   20
30
4230   Computing Sciences Directorate   43
45   53
54   Information and Computing   59
Sciences Division Office   69
82
National Energy Research   92
98
Scientific Computing Center   108

125   125/0
10
High Performance Computing   20
Department   26
36
49
Network and Telecommunications   59
65
Department   75

250

IPN.424.D/M

Module E
Identification Secondary
IS.000.E

Module E is the standard permanent room number identification unit. It consists of a Base Panel to which are added an ADA-compliant tactile number panel and a clear window for a removable message strip. Module E is unique in not using a Header Strip.

Note: Typical message shown. The typographic convention accommodates up to three lines of approximately 28 characters each.

TYPE SIZE (insert): 6mm Cap Height (25 point)

Module E
Construction

Scale 1:2

ADA PANEL

BASE PANEL

WINDOW PANEL

MESSAGE STRIP

IS.000.E
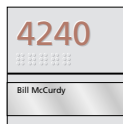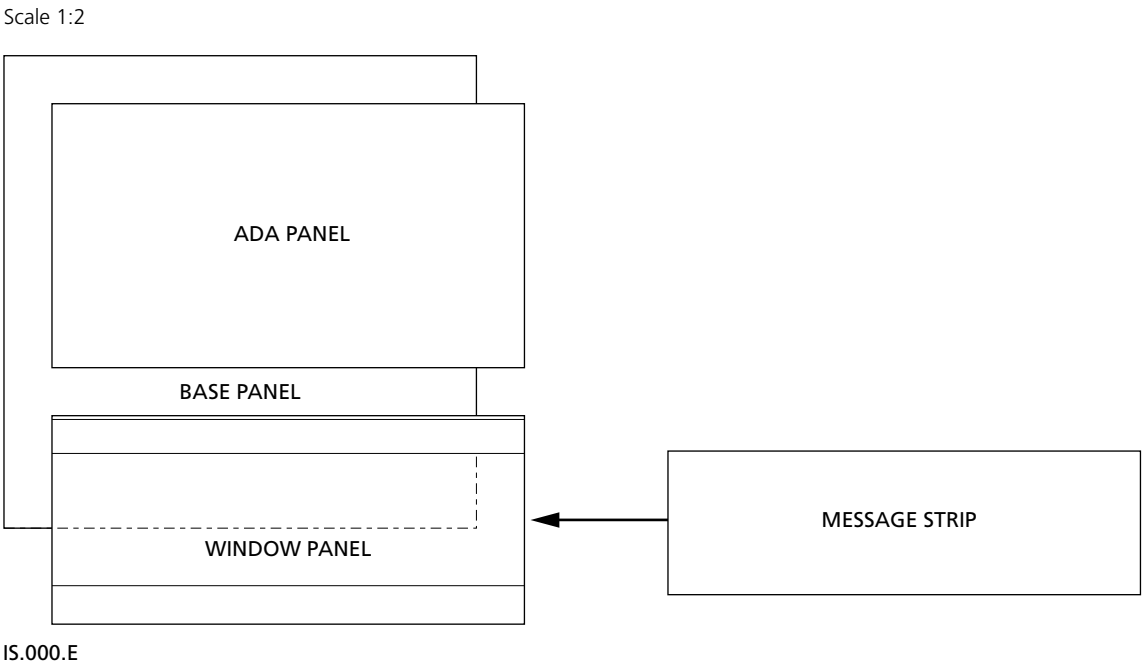
Module E Dimensions

PANEL	W x H (mm)	MATERIAL	DETAIL	STATUS
Base Panel	125 x 125	1/16" acrylic		Permanent
ADA Panel	125 x 70	1/8" photopolymer		Permanent
Window Panel	125 x 55	1/16" acrylic (window)	Dado/top	Permanent
Message Strip	125 x 38	10 mil clear acetate	(laserprint)	Removable

Module E
Graphic Specifications

Scale 1:2

4231
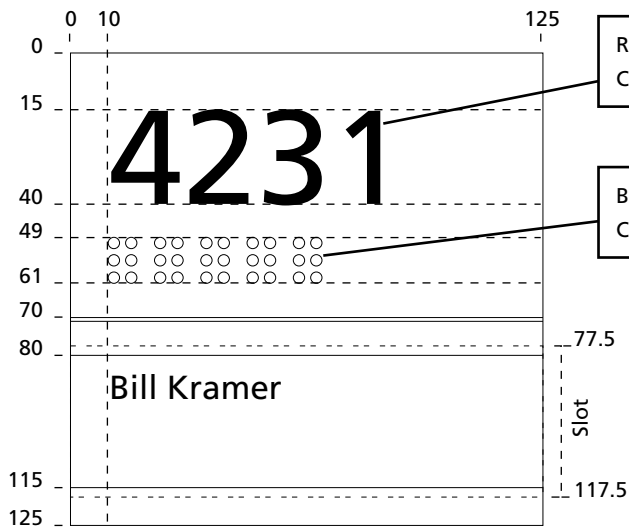
ROOM NUMBER
Color: C(L)

BRAILLE
Color: C1

MESSAGE TEXT
Color: Black

Bill Kramer

Slot

IS.xxx.E

Willa Masterson
Administrative Assistant

Single name with title or department (optional)

Mary Johnson

Andrea Lebrun

Two names

Wilson Gomez
Bill Kramer
Jonathan Smallwood

Three names
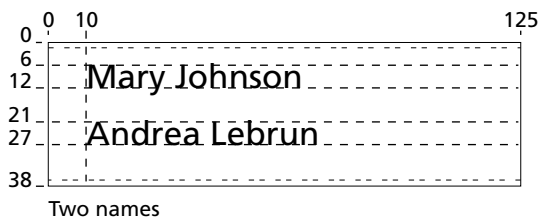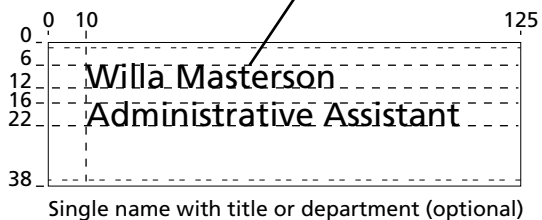
Modules J, K & L
Identification, Title 24
IM.000.J
IW.000.K
IU.000.L

The Title 24 modules are used in conjunction with the standard ADA-compliant restroom signage.
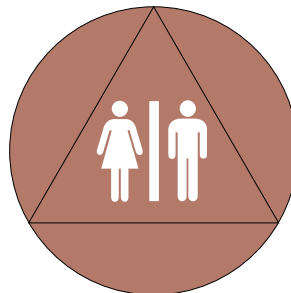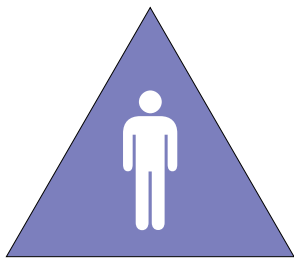
Module J
Graphic Specifications

Scale 1:4

BASE
Color: C(L)

PICTOGRAPH
Color: WH

IM.000.J
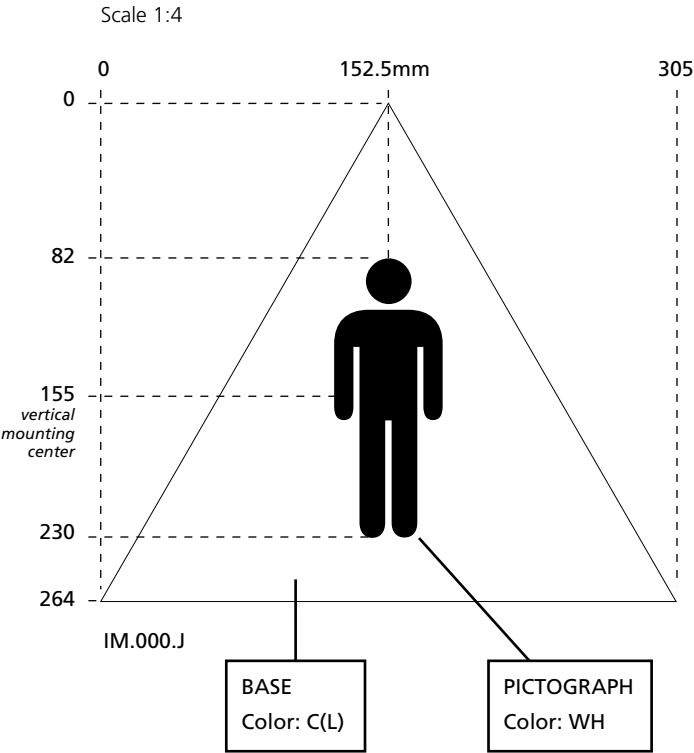
Module J Dimensions

PANEL	W x H (mm)	MATERIAL	DETAIL	STATUS
J Base Panel	305 x 264	1/4" acrylic		Permanent

Module K
Graphic Specifications

Scale 1:4

PICTOGRAPH
Color: WH

BASE
Color: C(L)

IM.000.K
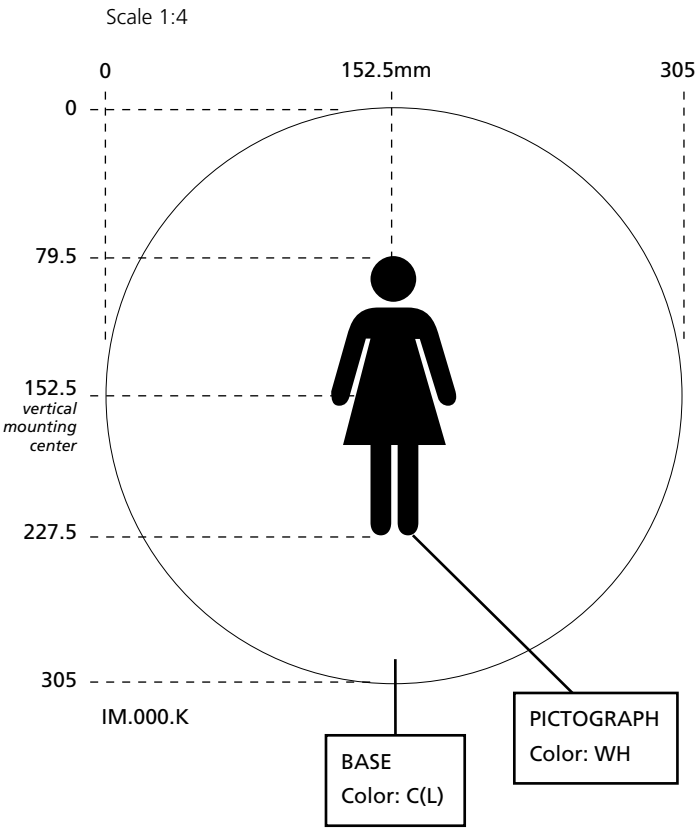
Module K Dimensions

PANEL	W x H (mm)	MATERIAL	DETAIL	STATUS
K Base Panel	305 dia.	1/4" acrylic		Permanent

Module L
Graphic Specifications

Scale 1:4

| | | | | | |
| PICTOGRAPH Color: WH |
| K BASE Color: C(L) |
| TRIANGLE Color: C(L) |
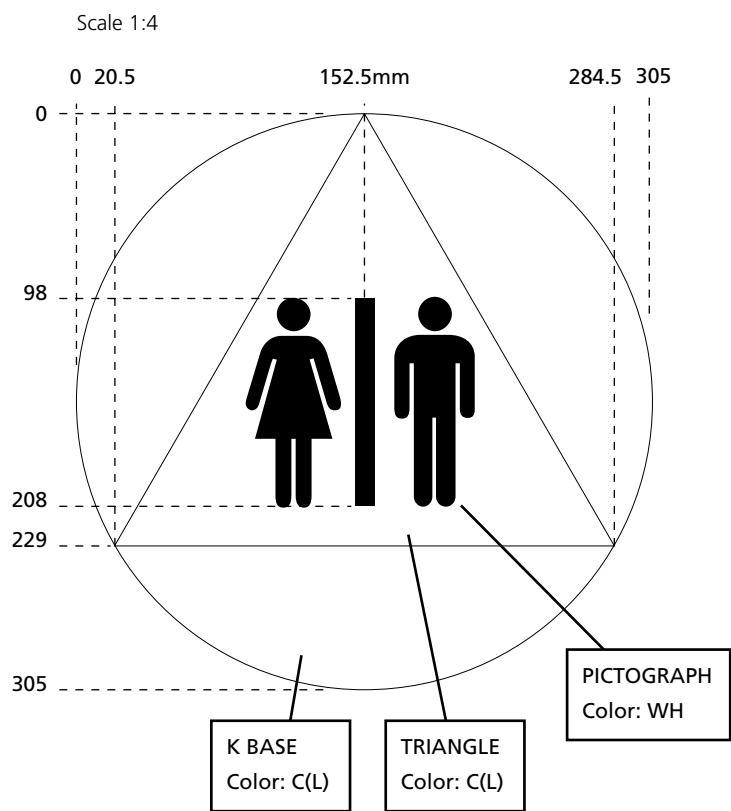
Module L Dimensions

PANEL	W x H (mm)	MATERIAL	DETAIL	STATUS
K Base Panel	305 dia.	1/4" acrylic		Permanent
Triangle Panel	264 x 229	1/4" acrylic		Permanent

Module N
Identification Secondary
Stairwell
ISW.000.N

Module N is used for stairwell identification. It consists of a Base Panel and Header Strip to which are added a Pictograph Panel and an ADA-compliant tactile message panel.

TYPE SIZE: 25mm Cap Height (100 point)

STAIR A1

Module ISW.000.N
Construction

Scale 1:4

HEADER STRIP

BASE PANEL

NUMBER PANEL
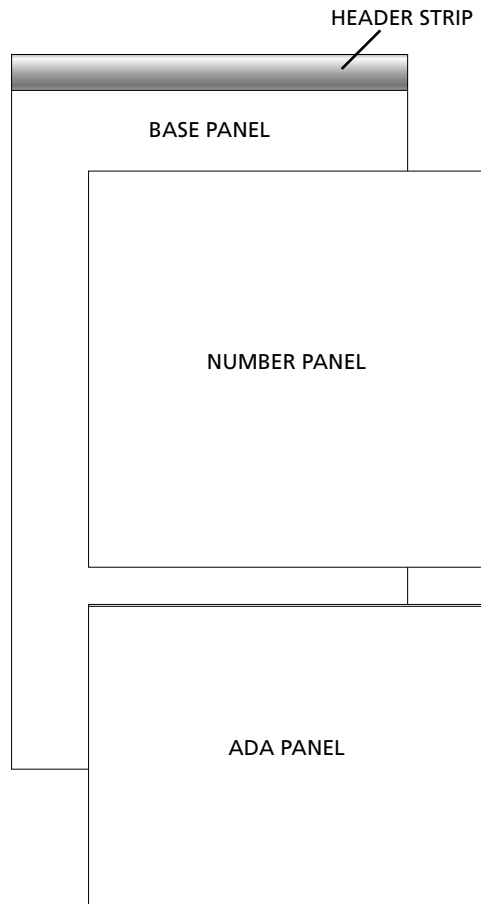
ADA PANEL

OSW.000.N

Module ISW.N Dimensions

PANEL	W x H (mm)	MATERIAL	DETAIL	STATUS
Base Panel	210 x 389	1/8" acrylic		Permanent
Header Strip	210 x 19	3/4" aluminum half-round		Permanent
Pictograph Panel	210 x 210	1/8" acrylic		Permanent
ADA Panel	210 x 160	1/8" photopolymer	Dado/top	Permanent

Module ISW.000.N
Graphic Specifications

Scale 1:4

010 105 210

0

35

175

210/0
10

35
44

370

HEADER STRIP
Color: C(L) special

PICTO
Color: C(L)

TACTILE LETTERS
Color: C2

STAIR A1

BRAILLE
Color: C1

ISW.000.N
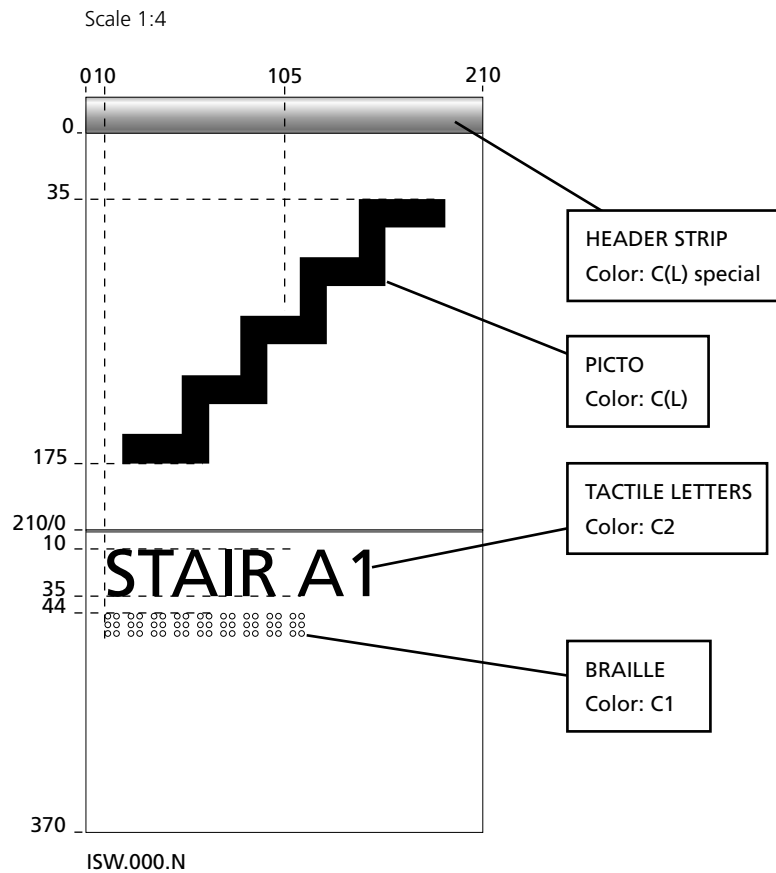
Module S
Identification Tertiary
IT.000.S

As of July 21, 1998, Module S is used for ADA-compliant restroom signage. It consists of a base panel and an ADA-compliant tactile message panel. It is designed not to conflict with the Title 24 restroom signage (Modules J, K and L). Essentially it consists of the previous Module C with the Header Strip and Pictograph panel deleted.

WOMEN

Module S
Construction

Scale 1:2

BASE PANEL
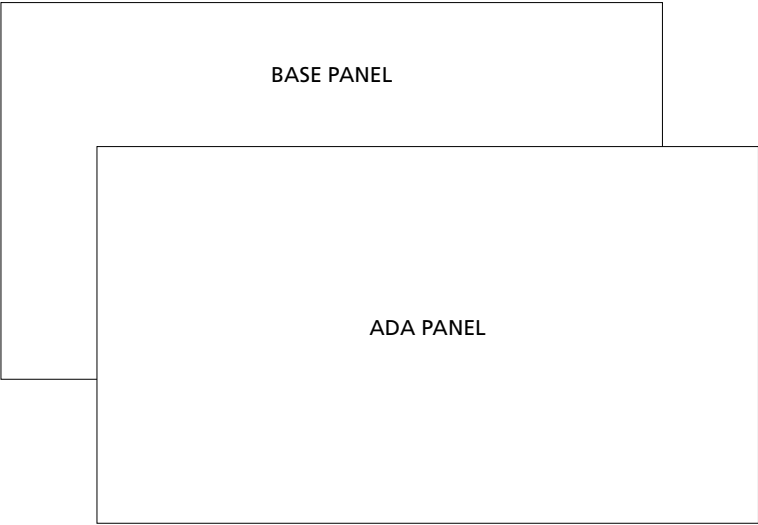
ADA PANEL

IT.000.S

Module Dimensions

PANEL	W x H (mm)	MATERIAL	DETAIL	STATUS
Base Panel	175 x 100	1/8" acrylic		Permanent
ADA Panel	175 x 100	1/8" photopolymer		Permanent

Module S
Graphic Specifications

Scale 1:2

WOMEN

TACTILE LETTERS
Color: C2

BRAILLE
Color: C1

IT.000.S

Scale 1:2

RESTROOM

TACTILE LETTERS
Color: C2

BRAILLE
Color: C1

IT.000.S (alternate)
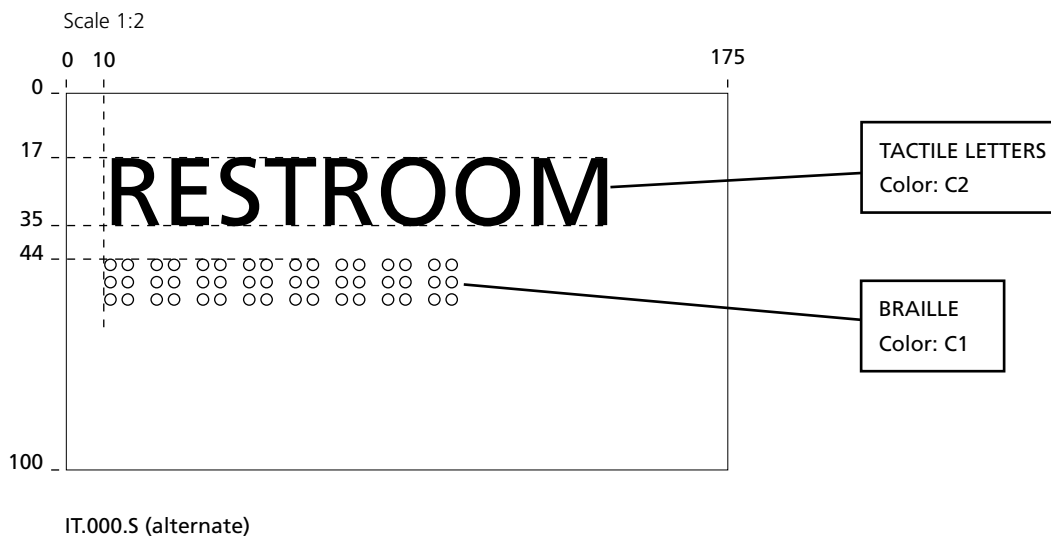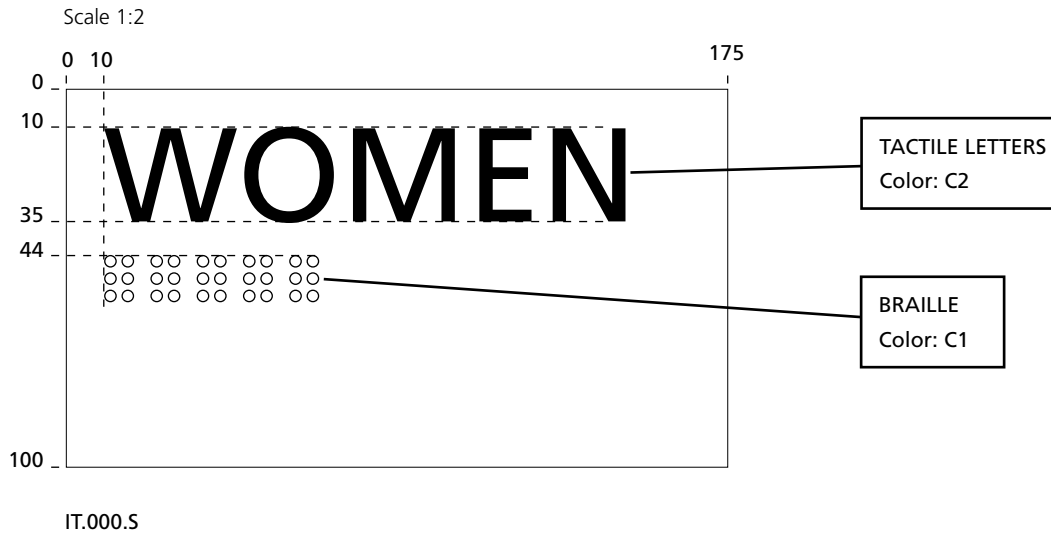
Module C
Informational Tertiary (Building)
NTB.000.C

A special variant of Module C is used for building identification, where an entrance to a building is found inside another building. It consists of a Base Panel and Header Strip to which are added a Number Panel and an ADA-compliant tactile message panel.

TYPE SIZE: 18mm Cap Height (72 point)

Module NTB.000.C
Construction
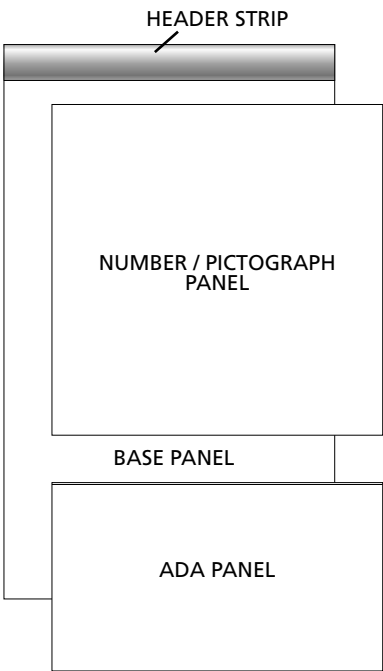
Scale 1:4

HEADER STRIP

NUMBER / PICTOGRAPH
PANEL

BASE PANEL

ADA PANEL

OLI.000.C / IT.000.C / NTB.000.C

Module Dimensions

PANEL	W x H (mm)	MATERIAL	DETAIL	STATUS
Base Panel	175 x 294	1/8" acrylic		Permanent
Header Strip	175 x 19	3/4" aluminum half-round		Permanent
Pictograph Panel	175 x 175	1/8" acrylic		Permanent
ADA Panel	175 x 100	1/8" photopolymer	Dado/top	Permanent

Module NTB.000.C
Graphic Specifications

Scale 1:4

0   175

0

12

HEADER STRIP
Color: C(L) special

(6)

NUMBER
Color: C(L)

162

175/0

10

BUILDING 6
ENTRANCE

26

34

TACTILE LETTERS
Color: C2

50

59

BRAILLE
Color: C1

100

10mm

NTB.000.C
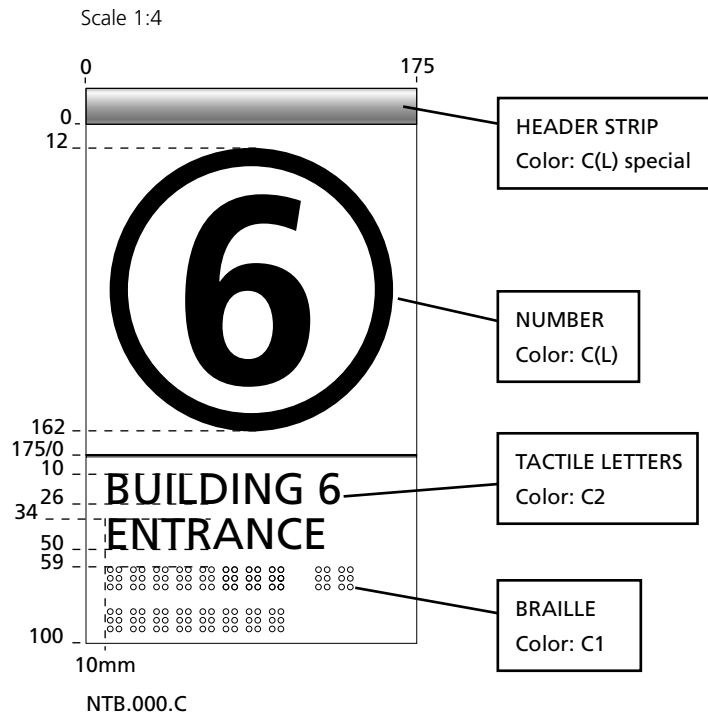
Module M
Informational Primary
NP.000.M

Module M is designed to comply with Emergency Evacuation Plan posting requirements. It consists of a Base Panel and Header Strip to which is added a Face Panel, divided into a Message Area and a Window Area. The message area displays the required title information in permanent form. Thin spacers separate the face panel from the base panel, creating a pocket into which an 11 x 17 inch color printout of the evacuation plan is inserted behind a clear window in the window area. This plan is easily removable for updating. The signage vendor is not responsible for providing the map inserts.

Module M
Construction

Scale 1:4

HEADER STRIP

BASE PANEL

TOP SPACER

FACE PANEL

MESSAGE AREA

WINDOW AREA

*NOTE: Message Area and Window Area are
two regions of a one-piece FACE PANEL, with a
1mm dado cut functioning as a visual demarcation.*

BOTTOM SPACER

NP.000.M

PAPER INSERT
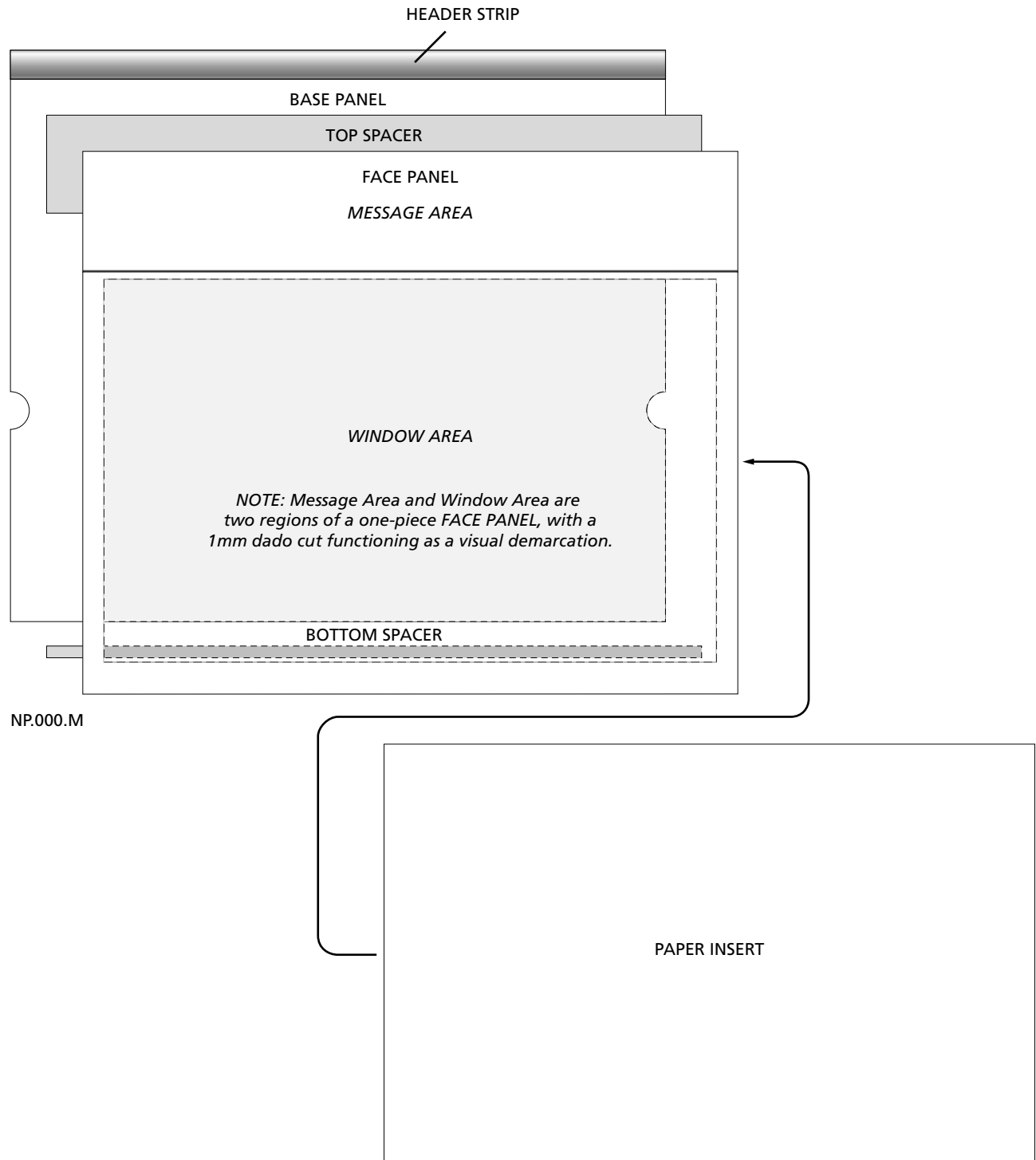
Module M
Graphic Specifications

Scale 1:4

Scale 1:2

HEADER STRIP
Color: C(L) special

EMERGENCY EVACUATION PLAN
BUILDING 50 MAIN LEVEL

MESSAGE
Color: C2

Clear window for insert map
Insert size = 11 x 17 inches

FACE PANEL
Color: C1

WINDOW
Color: Clear

top spacer

groove

pocket

clear window

base panel   bottom spacer   face panel

0 15   420 435
0   0
16
34
46
65 64
(upper edge of paper pocket)   80
86 (top of window)
207.5
dia. 25
232.5
338 *(bottom of window)*
352 *(bottom of paper pocket)*   360
NP.000.M

Module NP.M Dimensions

PANEL	W x H (mm)	MATERIAL	DETAIL	STATUS
Base Panel	435 x 379	1/8" acrylic	Thumb notches	Permanent
Header Strip	435 x 19	3/4" aluminum half-round		Permanent
Top Spacer	435 x 65	1/16" foam tape or equiv.		Permanent
Bottom Spacer	435 x 8	1/16" foam tape or equiv.		Permanent
Face Panel	435 x 360	1/8" painted clear acrylic	Dado groove	Permanent
Message Area	*435 x 80*	*1/8" painted clear acrylic*	*-*	*-*
Window Area	*435 x 280*	*1/8" painted clear acrylic*	*-*	*-*
Clear Window	*405 x 252*	*unpainted area*	*-*	*-*
Insert Pocket	*435 x 287*	*open space*	*-*	*-*
Paper Insert	11 x 17in	Color inkjet or laser print		Removable

Module N
Informational Regulatory
NR.000.N

This variant of Module N was designed to fill a specific requirement. It displays a lengthy message and matches the nearby stairwell sign.

THIS DOOR IS LOCKED. IN CASE OF EMERGENCY AND NEED TO REENTER THE BUILDING, GO TO THE FLOOR BELOW.
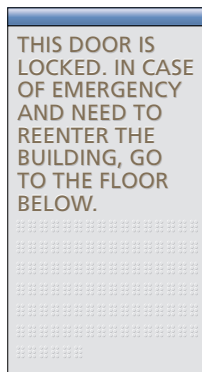
Module NR.000.N
Construction

Scale 1:4

HEADER STRIP

BASE PANEL
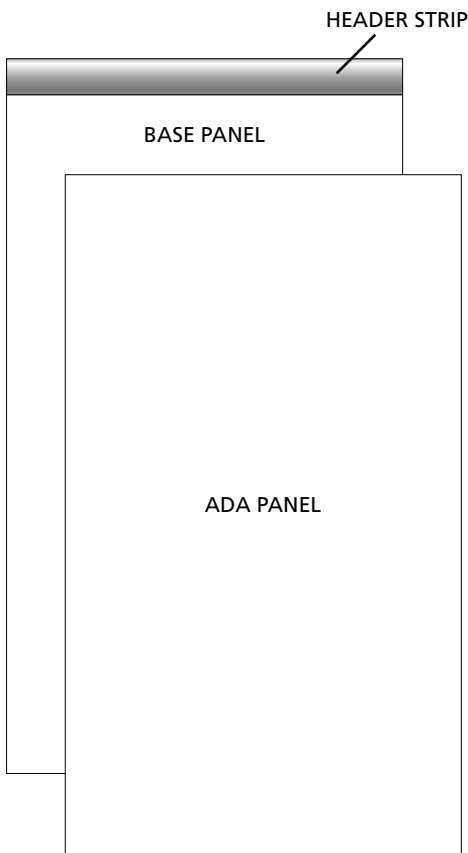
ADA PANEL

NR.000.N

Module NR.N Dimensions

PANEL	W x H (mm)	MATERIAL	DETAIL	STATUS
Base Panel	210 x 389	1/8" acrylic		Permanent
Header Strip	210 x 19	3/4" aluminum half-round		Permanent
ADA Panel	210 x 370	1/8" photopolymer		Permanent

Module NR.000.N
Graphic Specifications

Scale 1:4

010   210

0
10
26
34
50
58
74
82
98
106
122
130
146
154
170
178
194
206
370

THIS DOOR IS
LOCKED. IN CASE
OF EMERGENCY
AND NEED TO
REENTER THE
BUILDING, GO
TO THE FLOOR
BELOW.

HEADER STRIP
Color: C(L) special

TACTILE LETTERS
Color: C2

BRAILLE
Color: C1

NR.000.N
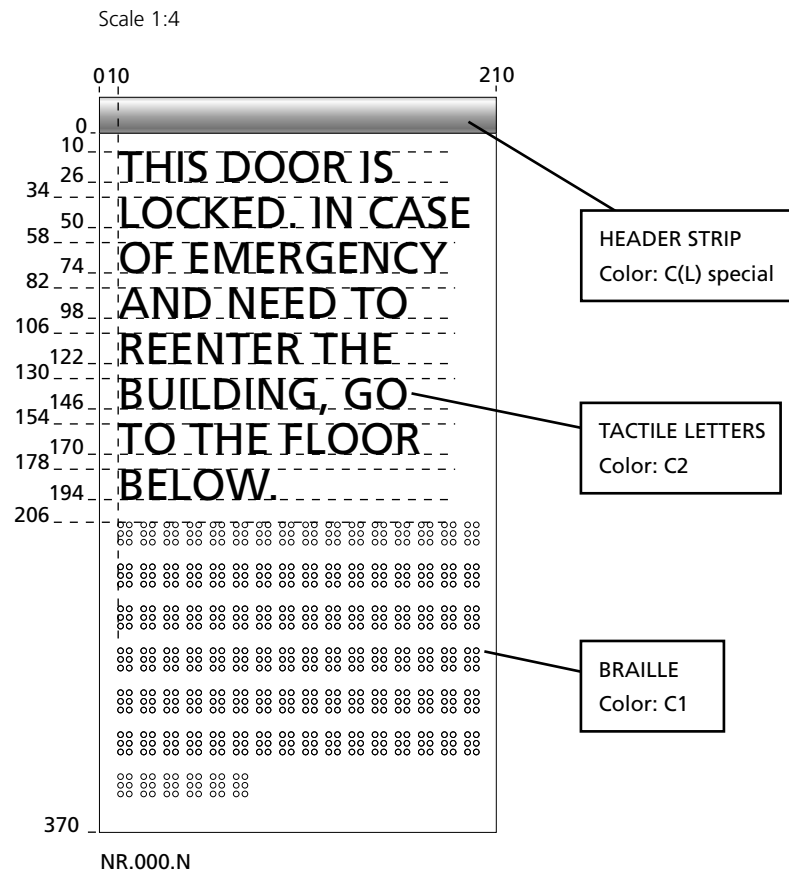
Module O
Informational Secondary
NS.000.O

Module O is used for staff directories, or other frequently updated information which is not directly related to wayfinding or room identification. It consists of a Base Panel and Header Strip to which are added a Window Panel and a removable Insert Page. The Insert Page is a 8 1/2 x 11 inch clear acetate sheet which is output on a laser printer. A template will be provided.

ALS Staff Directory

222	Elizabeth Saucier
224	Judy Zelver
226	Jim Krupnick
228	Ben Feinberg
230	Ruth Pepe
232	Brian Kincaid
233	Joe Harkins
235	Visitor
238	Charles Kim
240	Alan Jackson
241	Visitor
242	Ronnie Nelson
242A	Rod Keller
244	Dave Robin
246	Hiroshi Nishimura
247	Dexter Massoletti
248	John Byrd

Module O
Construction

Scale 1:4

HEADER STRIP

BASE PANEL

WINDOW PANEL ← INSERT PAGE
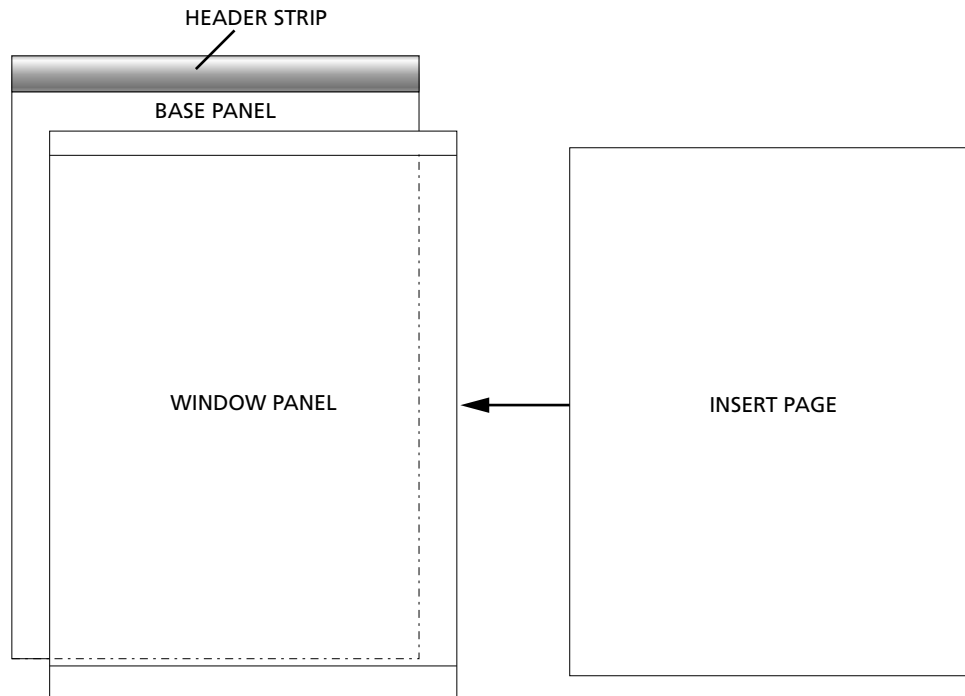
NS.000.O

Module NS.O Dimensions

PANEL	W x H (mm)	MATERIAL	DETAIL	STATUS
Base Panel	216 x 319	1/8" acrylic		Permanent
Header Strip	216 x 19	3/4" aluminum half-round		Permanent
Window Panel	216 x 300	1/8" clear acrylic		Permanent
Insert Page	8 1/2 x 11in	Clear acetate laser print		Removable

Module O
Graphic Specifications

Scale 1:4

0   216

0

12

*(upper edge
of window)*

8

*(upper edge
of paper slot)*

HEADER STRIP
Color: C(L) special

WINDOW
Color: Clear

*((lower edge
of window)*

280

300

288

*(lower edge
of paper slot)*

NS.000.O

HEADLINE
42pt Frutiger 55 Roman

0 0.5   2.0   8.5in

0

0.75

11.0in

ALS Staff Directory

222	Elizabeth Saucier
224	Judy Zelver
226	Jim Krupnick
228	Ben Feinberg
230	Ruth Pepe
232	Brian Kincaid
233	Joe Harkins
235	Visitor
238	Charles Kim
240	Alan Jackson
241	Visitor
242	Ronnie Nelson
242A	Rod Keller
244	Dave Robin
246	Hiroshi Nishimura
247	Dexter Massoletti
248	John Byrd

Insert Layout

LIST
24pt Frutiger 55 Roman

Module A
Orientation Primary
OP.000.A

Module A serves as the main site orientation map and
directory. It consists of a Base Panel and Header
Strip to which are added a Title Panel, Map Panel
and Directory Panel.

TITLE TYPE SIZE: 32mm Cap Height (130 point)

Note: Separated multicolor art for the level maps and
directory listings is available as digital art in Adobe
Illustrator for Macintosh format.

Module A
Construction

Scale 1:4

HEADER STRIP

BASE PANEL

TITLE PANEL

MAP PANEL

DIRECTORY PANEL

OP.000.A
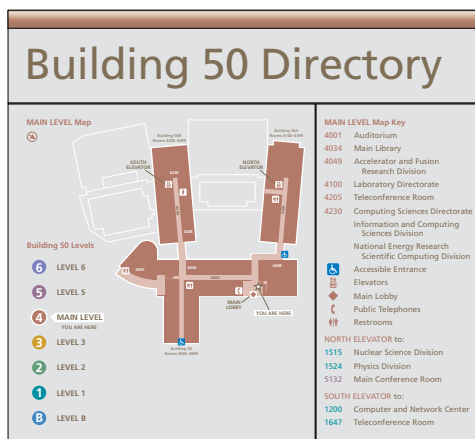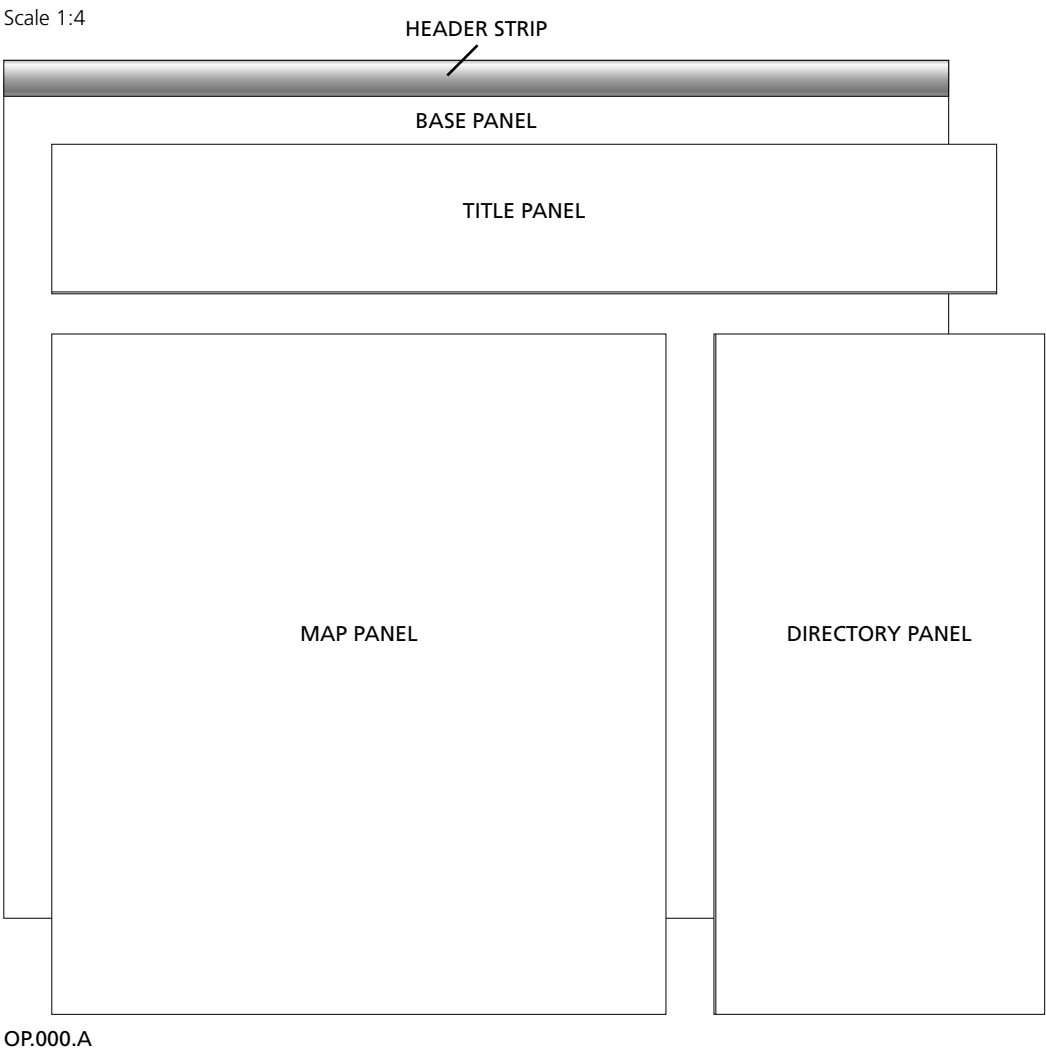
Module A Dimensions

PANEL	W x H (mm)	MATERIAL	DETAIL	STATUS
Base Panel	500 x 459	1/8" acrylic		Permanent
Header Strip	500 x 19	3/4" aluminum half-round		Permanent
Title Panel	500 x 80	1/8" acrylic	Dado/bottom	Permanent
Map Panel	325 x 360	1/8" acrylic		Removable
Directory Panel	175 x 360	1/8" acrylic	Dado/left	Removable

Module A
Graphic Specifications

Scale 1:4

TITLE
Color: C2

HEADER STRIP
Color: C(L) special

Building 50 Directory

MAIN LEVEL Map

Building 50B
Rooms 4200–4299

Building 50A
Rooms 4100–4199

**SOUTH
ELEVATOR**

**NORTH
ELEVATOR**

4230

4200

4205

4100

4001

4034

4000

4049

**MAIN
LOBBY**

YOU ARE HERE

Building 50
Rooms 4000–4099

Building 50 Levels

6   **LEVEL 6**

5   **LEVEL 5**

4   **MAIN LEVEL**
      YOU ARE HERE

3   **LEVEL 3**

2   **LEVEL 2**

1   **LEVEL 1**

B   **LEVEL B**

MAIN LEVEL Map Key

4001	Auditorium
4034	Main Library
4049	Accelerator and Fusion Research Division Office
4100	Laboratory Directorate
4205	Teleconference Room
4230	Computing Sciences Directorate
	Information and Computing Sciences Division Office
	National Energy Research Scientific Computing Center

Accessible Entrance

Elevators

Main Lobby

Public Telephones

Restrooms

NORTH ELEVATOR to:

1515	Nuclear Science Division Office
1524	Physics Division Office
5132	Main Conference Room

SOUTH ELEVATOR to:

1220	Computing Facility
1647	Teleconference Room

OP.000.A

MAP ART
Colors (vary):
C (L), C(L)S,
C2, WH,
P300

DIRECTORY
Colors (vary):
C(L), C2,
P300

Note: Art and color specifications for Map Panel and Directory Panel are available as digital art files, for those buildings in which a comprehensive signage program has been completed.

Module B
Orientation Secondary
OS.000.B

Module B serves as the level orientation map and directory. It consists of a Base Panel and Header Strip to which are added a Map Panel and Directory Panel.

Note: Separated multicolor art for the level maps and directory listings is available as digital art in Adobe Illustrator for Macintosh format.

Module B
Construction

Scale 1:4

HEADER STRIP

BASE PANEL

MAP PANEL

DIRECTORY PANEL

ADA PANEL

OS.000.B

Module B Dimensions

PANEL	W x H (mm)	MATERIAL	DETAIL	STATUS
Base Panel	500 x 379	1/8" acrylic		Permanent
Header Strip	500 x 19	3/4" aluminum half-round		Permanent
Map Panel	325 x 235	1/8" acrylic		Removable
ADA Panel	325 x 125	1/8" photopolymer	Dado/top	Removable
Directory Panel	175 x 360	1/8" acrylic	Dado/left	Removable

Module B
Graphic Specifications

Scale 1:4

MAP ART Colors (vary):
C(L), C(L)S, C2, WH, P300

HEADER STRIP
Color: C(L) special

0 10   325   500

0

Building 50 Levels

6 LEVEL 6

5 LEVEL 5

4 ◁ MAIN LEVEL
YOU ARE HERE

3 LEVEL 3

2 LEVEL 2

1 LEVEL 1

B LEVEL B

MAIN LEVEL Map

4001

SOUTH
ELEVATOR

4200   4230

4205

4034   Building 50B
Rooms 4200–4299

Building 50
Rooms 4000–4099

MAIN
LOBBY

NORTH
ELEVATOR

4049   4100

Building 50A
Rooms 4100–4199

YOU ARE HERE

MAIN LEVEL Map Key

4001	Auditorium
4034	Main Library
4049	Accelerator and Fusion Research Division Office
4100	Laboratory Directorate
4205	Teleconference Room
4230	Computing Sciences Directorate
	Information and Computing Sciences Division Office
	National Energy Research Scientific Computing Center
	Accessible Entrance
	Elevators
	Main Lobby
	Public Telephones
	Restrooms

NORTH ELEVATOR to:

1515	Nuclear Science Division Office
1524	Physics Division Office
5132	Main Conference Room

SOUTH ELEVATOR to:

1220	Computing Facility
1647	Teleconference Room

235 / 0

20

45
55

80
89

125

MAIN LEVEL
NORTH ELEVATOR

10

OS.000.B

BRAILLE
Color: C1

TACTILE LETTERS
Color: C2

DIRECTORY
Colors (vary):
C2, C(L)

Note: Art and color specifications for Map Panel and Directory Panel are available as digital art files, for those buildings in which a comprehensive signage program has been completed.
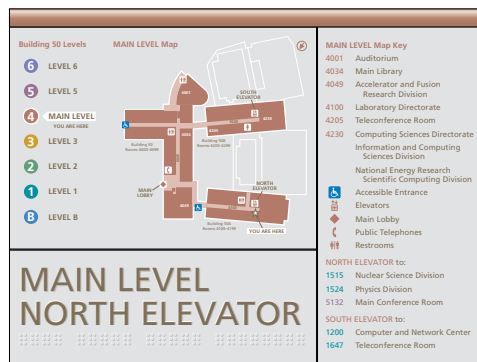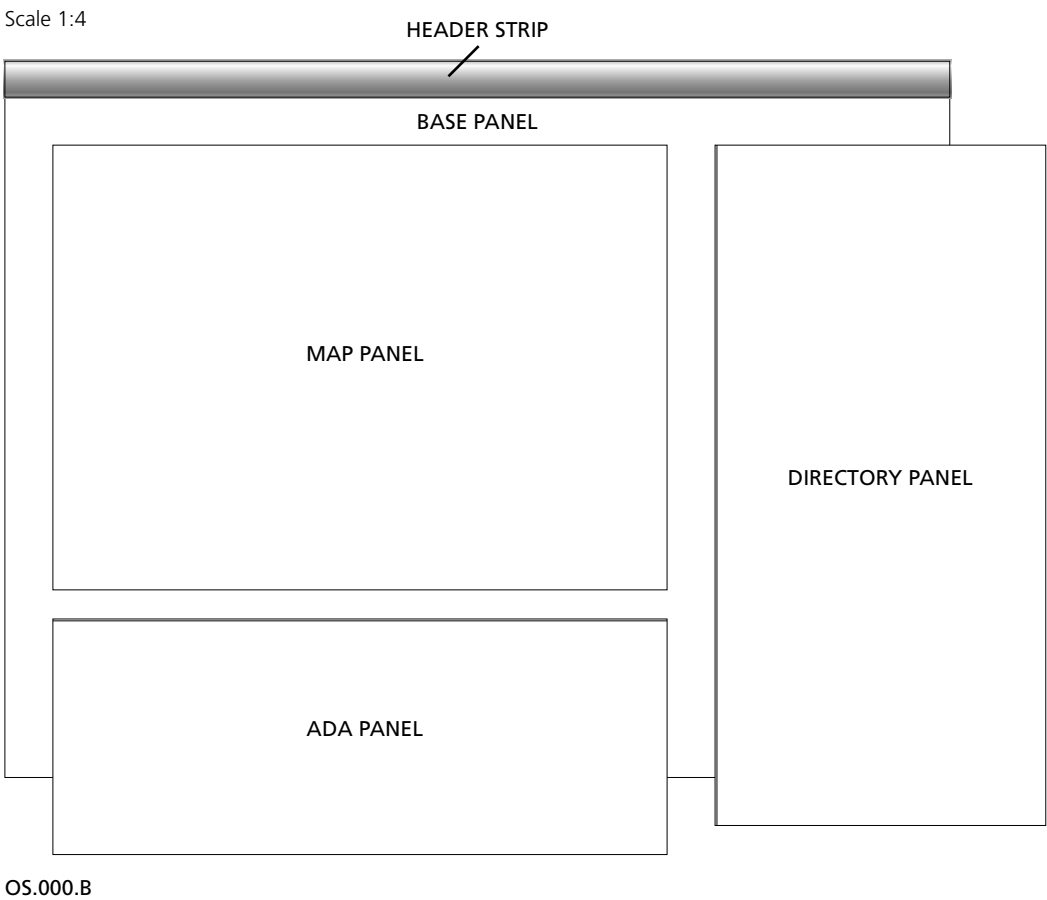
Module C
Orientation, Level Identification
OLI.000.C

Module C is used for level orientation (shown at left) and for accessible restroom identification (see below). It consists of a Base Panel and Header Strip to which are added a Number Panel and an ADA-compliant tactile message panel.

TYPE SIZE: 25mm Cap Height (100 point)

Module OLI.000.C
Construction
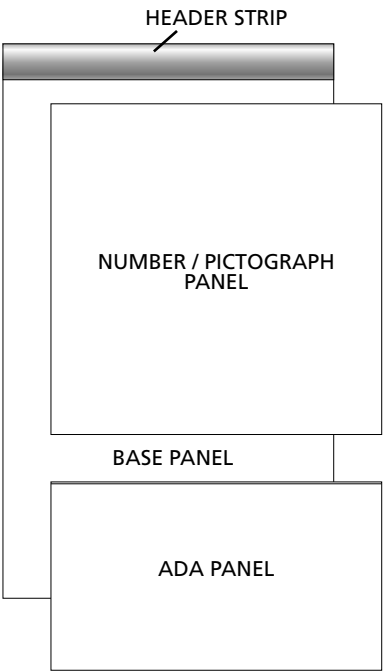
Scale 1:4

HEADER STRIP

NUMBER / PICTOGRAPH
PANEL

BASE PANEL

ADA PANEL

OLI.000.C / IT.000.C / NTB.000.C

Module Dimensions

PANEL	W x H (mm)	MATERIAL	DETAIL	STATUS
Base Panel	175 x 294	1/8" acrylic		Permanent
Header Strip	175 x 19	3/4" aluminum half-round		Permanent
Pictograph Panel	175 x 175	1/8" acrylic		Permanent
ADA Panel	175 x 100	1/8" photopolymer	Dado/top	Permanent

Module OLI.000.C
Graphic Specifications

Scale 1:4

0   87.5   175

0

27.5

6

147.5

175 / 0
10

LEVEL 6

35
44

100

10mm

OLI.000.C

HEADER STRIP
Color: C(L) special

NUMBER
Color: C(L)

BRAILLE
Color: C1

TACTILE LETTERS
Color: C2

Module N
Orientation Stairwell
OSW.000.N

Module N is used for level orientation within stairwells. It consists of a Base Panel and Header Strip to which are added a Number Panel and an ADA-compliant tactile message panel.

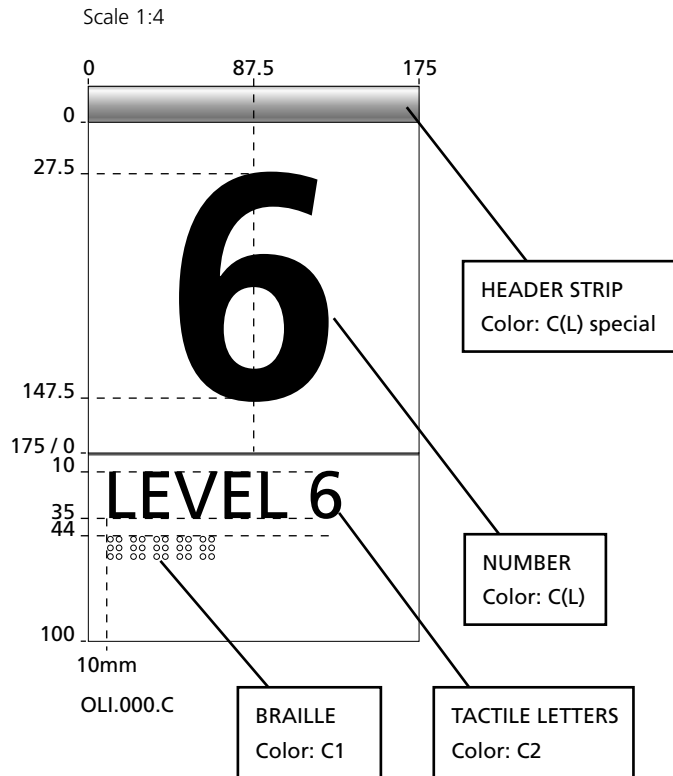TYPE SIZE: 18mm Cap Height (72 point).
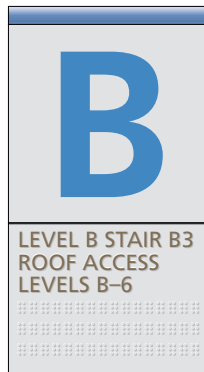
Module N
Construction

Scale 1:4

HEADER STRIP

BASE PANEL

NUMBER PANEL
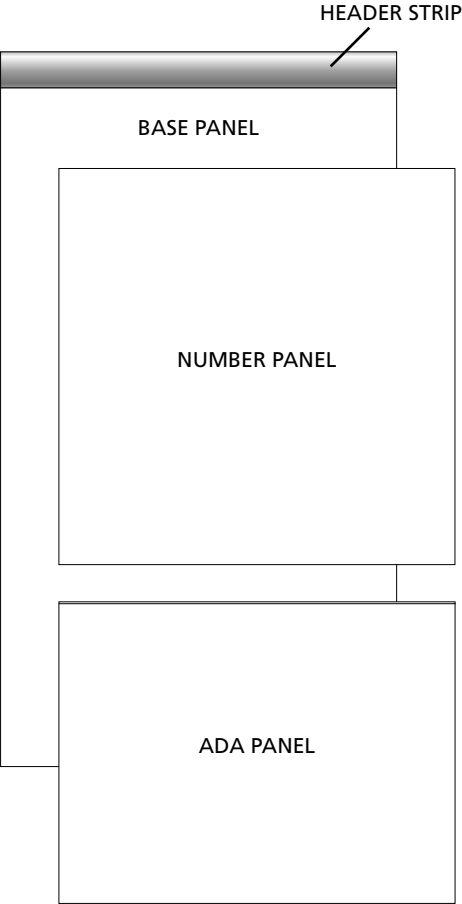
ADA PANEL

OSW.000.N

Module OSW.N Dimensions

PANEL	W x H (mm)	MATERIAL	DETAIL	STATUS
Base Panel	210 x 389	1/8" acrylic		Permanent
Header Strip	210 x 19	3/4" aluminum half-round		Permanent
Number Panel	210 x 210	1/8" acrylic		Permanent
ADA Panel	210 x 160	1/8" photopolymer	Dado/top	Permanent

Module N
Graphic Specifications

Scale 1:4

| 010 | 105 | 210 |

B

LEVEL B STAIR B3
ROOF ACCESS
LEVELS B–6

HEADER STRIP
Color: C(L) special

NUMBER
Color: C(L)

TACTILE LETTERS
Color: C2

BRAILLE
Color: C1

OSW.000.N
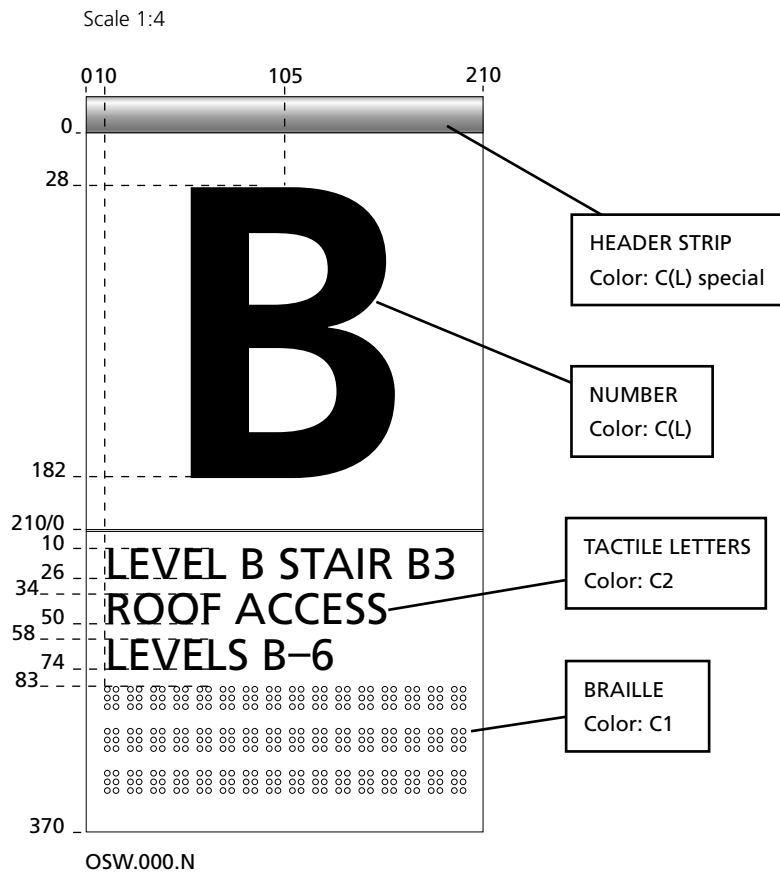
Location-Specific Information

Summary

Implemented Signage Programs

This page lists the signage programs which are essentially complete (indicated with an *), or partially implemented, as of January 1, 2000. It serves to provide the basic information as to which colors are used in a particular building. For detailed information about the completed programs, see the following pages.

Advanced Light Source (6, 10, 80) *
Building 6, All Levels L5
Building 10, All Levels L3
Building 80, All Levels L1

Building 46
All . . . . LB

Building 50 Complex (50A–F) *
Level B . . . . LB
Level 1 . . . . L1
Level 2 . . . . L2
Level 3 . . . . L3
Level 4 (Main Level) L4
Level 5 . . . . L5
Level 6 . . . . L6

Building 51 *
All Levels L5

Building 70
All Levels L4

Building 70A
All Levels . . . . LB

Building 74
All Levels L4

Building 84 *
West . . . . LB
Central. L5
East L1

Building 90
All Levels . . . . LB

Building 100 (Joint Genome Institute) *
All L4

Building 400 (Joint Genome Institute) *
All L1

Building 937 (Berkeley Tower) *
All Levels . . . . LB

Color Code Description

The sign system is designed to facilitate wayfinding for visitors to a complex site. A fundamental feature of the system is the convention of Level (or Building) Color Codes. In certain large buildings each level is assigned a distinctive color. Within each sign unit, items such as the Header Strip, room numbers, and pictographs are called out in the code color for that particular level. In the case of the Advanced Light Source area, the color distinction is made between adjoining buildings with interior communication. The module description pages provide specific information about individual signs.

A list of color codes used in buildings 6, 10 and 80 is shown on the following page.

Color of Level

In this project, color of level refers to the *building* in which the sign is located; i.e., when color C(L) is indicated, refer to the Sign Message Inventory, which is divided into lists for Building 80 and Building 6. For example, sign number 203 is listed under Building 6 Level 2R; according to the Color Name Conventions chart it uses color L5 wherever C(L) is indicated.

A special case is the use of Room Numbers. A room number is always printed in the color of the building that the room is located in. A common example of this convention is the Secondary Orientation Module (B); sign number OS.203.B is located on Level 2R of Building 6, but the directory list calls out multiple destinations in Building 80. The Room Numbers and Pictographs associated with these destinations are printed in the Building 80 color.

In the case of the orientation maps, these color details will be included in the digital art files. However, this convention also affects individual message strips on directional units in certain situations, although none are specified in this sign package.

Color Code List

CODE	COLOR SPEC	FUNCTION
LB	*Matthews 76B-4D Antioch Blue*	*not used*
L1	Matthews 57C-4D Airland Blue	Building 80 Color
L2	*Matthews 44C-4B Polo Green*	*not used*
L3	*Matthews 36B-4A Pigskin*	*not used*
L4	*Matthews 11B-4D Light Earth*	*not used*
L5	Matthews 1C-4D Rich Plum	Building 6 Color
L6	*Matthews 72C-4D Violet Sequin*	*not used*
LBS	*Matthews 76B-27 Breton*	*not used*
L1S	Matthews 57C-2T Aquamarine Blue	Building 80 Secondary Color
L2S	*Matthews 44C-2T Village Green*	*not used*
L3S	*Matthews 36B-2D Harvest*	*not used*
L4S	*Matthews 11B-1P Country Way*	*not used*
L5S	Matthews 1C-2T September Glory	Building 6 Secondary Color
L6S	*Matthews 72C-2T Savon Star*	*not used*
C(L)*	Color (of Level) to indicate variable elements	Read, "of Building". Abbreviation used in module layout pages
C(L)S	Secondary Color (of Level)	Accent color based on Level Color; used in orientation maps for contrast
C1	Matthews Nuance 13A-3P Alabaster	Sign base color
C2	Pantone Warm Gray 11	Default message type color (unless noted)
WH	White	Used in orientation maps and some pictographs
P300	Pantone 300 CV	Accessibility pictograph
P388	Pantone 388 CV	You Are Here symbol in orientation maps (alternate color)
P1375	Pantone 1375 CV	You Are Here symbol in orientation maps

Wayfinding

Wayfinding Program Objectives

1. To establish a program of user-friendly information which visitors can employ to navigate throughout the variety of buildings currently defined as the Building 50 Complex;

2. To provide information to already familiar users of the Building 50 Complex which will assist them in understanding the transition from the existing Building 50A, B, etc. nomenclature to the new wayfinding information program;

3. To develop a system which is robust and comprehensive in the wayfinding information it can provide.

'Visitors' are defined as first-time users from outside the laboratory community as well as laboratory members attempting to find unfamiliar destinations.

Wayfinding Program Approach

Simple observation has verified that the current approach to Building 50 Complex orientation and identification — designating buildings within the Complex by the addition of a letter — does little to aid visitors or staff in the navigation of the facility.

Three aspects of the physical environment were analyzed for their potential contribution to a successful wayfinding program:

1. The ability to make all horizontal planes function within the context of 'level';

2. The ability to use room numbers as an ordering and orienting principle;

3. The ability to establish easy-to-use and meaningful vertical orienting mechanisms.

The result of this investigation revealed that all three aspects of the physical environment yielded effective wayfinding elements which could be combined into a comprehensive program allowing users who understand and employ the system to navigate to the level of the room number destination.

The program relies on the following parameters for its definition:

1. The use of color coding to help distinguish and reinforce the concept of 'levels';

2. The use of North Elevator and South Elevator as key orienting designations for establishing vertical movement awareness; and

3. The use of a room number which through color and hierarchical coding, gives tremendous orienting information — from level, to general positioning, to specific room identification. Once the wayfinding system is comprehended, these four digits which proceed the textual description of the destination can deliver all the orienting information required for successful navigation of the Complex.

Wayfinding Message Sequence

Generally, information can be ordered alphabetically, numerically, or by importance. Because of the extremely significant contribution which the room numbering component offered, we have used it as the primary wayfinding element, and given it a priority status within the organization of our destination information. The room number identification is the first piece of information presented to the visitor.

Public service destinations (identified with the standard international pictograph) follow Room Number destinations in the message sequence. This allows all room numbers to be shown in an uninterrupted sequential fashion, implying the reality of the physical space as well.

The successful realization of this proposed wayfinding approach will only be attained if the stated organizing elements, principles and relationships are maintained throughout its implementation.

Color Code Description

The sign system is designed to facilitate wayfinding for visitors to a complex site. A fundamental feature of the system is the convention of Level Color Codes. Each of the seven levels is assigned a distinctive color. Within each sign unit, items such as the Header Strip, room numbers, and pictographs are called out in the code color for that particular level. The attached module description pages provide specific information about individual signs.

A list of the color codes that are used in this project is on the following page.

Color of Level

Color of level usually refers to the level on which the sign is located; i.e., when color C(L) is indicated, refer to the sign number code. For example, if the sign number is 503, then use color L5. The crucial exception is the use of Room Numbers. A room number is always printed in the color of the level that room is on. A common example of this convention is the Secondary Orientation Module (B); sign number OS.101.B is located on Level 1, but the directory list calls out multiple destinations on the Main Level. The Room Numbers and Pictographs associated with these destinations are printed in color L4, the Main Level color.

In the case of the orientation maps, these color details are included in the digital art files. For reference purposes, the following is a brief summary of the rules for color use in directory listings (Modules A and B).

1. Header information ("Level 6 Map Key") in sign level color ("L6").

2. Room Numbers and Pictographs in destination Level Color.

3. Text in color C2 except:

   a) In the phrases "North Elevator to:" and "South Elevator to:", the words "North Elevator" and "South Elevator" are in the sign Level Color.

b) On certain directory panels, in the phrases "SOUTH ELEVATOR from MAIN LEVEL to:" and "NORTH ELEVATOR from MAIN LEVEL to:", the words "SOUTH ELEVATOR", "NORTH ELEVATOR" and "MAIN ELEVATOR" are in the Main Level Color (L4).

The rules for color use in directional message strips (Modules F and G) are similar:

1. Room Numbers and Pictographs in destination Level Color. This may not be the same as the sign Level Color.

2. Text in color C2 except in the phrases "North Elevator to:" and "South Elevator to:", the words "North Elevator" and "South Elevator" are in sign Level Color.

Color Code List

CODE	COLOR SPEC	FUNCTION
LB	Matthews 76B-4D Antioch Blue	Level B Color
LBS	Matthews 76B-27T Breton	Level B Secondary Color
L1	Matthews 57C-4D Airland Blue	Level 1 Color
L1S	Matthews 57C-2T Aquamarine Blue	Level 1 Secondary Color
L2	Matthews 44C-4B Polo Green	Level 2 Color
L2S	Matthews 44C-2T Village Green	Level 2 Secondary Color
L3	Matthews 36B-4A Pigskin	Level 3 Color
L3S	Matthews 36B-2D Harvest	Level 3 Secondary Color
L4	Matthews 11B-4D Light Earth	Main Level Color
L4S	Matthews 11B-1P Country Way	Main Level Secondary Color
L5	Matthews 1C-4D Rich Plum	Level 5 Color
L5S	Matthews 1C-2T September Glory	Level 5 Secondary Color
L6	Matthews 72C-4D Violet Sequin	Level 6 Color
L6S	Matthews 72C-2T Savon Star	Level 6 Secondary Color
C(L)	Color (of Level)	Abbreviation used in module layout pages to indicate elements that vary in color according to level*
C(L)S	Secondary Color (of Level)	Accent color based on Level Color; used in orientation maps for contrast
C1	Matthews Nuance 13A-3P Alabaster	Sign base color
C2	Pantone Warm Gray 11	Default message type color (unless noted)
WH	White	Used in orientation maps and some pictographs
P300	Pantone 300 CV	Accessibility pictograph
P388	Pantone 388 CV	You Are Here symbol in orientation maps (alternate color)
P1375	Pantone 1375 CV	You Are Here symbol in orientation maps

Color Code Description

Building 51 uses a single color for all levels.

A list of the color codes used in this project is on the following page.

Color of Level

In this project, color of level refers to the *building* in which the sign is located; i.e., when color C(L) is indicated, refer to the color code list on the following page for the Buiding Color. In this case, Building 51 and its sub-buildings, such as 51L, all use the same color palette.

Color Code List

CODE	COLOR SPEC	FUNCTION
LB	*Matthews 76B-4D Antioch Blue*	*not used*
L1	*Matthews 57C-4D Airland Blue*	*not used*
L2	*Matthews 44C-4B Polo Green*	*not used*
L3	*Matthews 36B-4A Pigskin*	*not used*
L4	*Matthews 11B-4D Light Earth*	*not used*
L5	Matthews 1C-4D Rich Plum	Building 51 Color
L6	*Matthews 72C-4D Violet Sequin*	*not used*
LBS	*Matthews 76B-27 Breton*	*not used*
L1S	*Matthews 57C-2T Aquamarine Blue*	*not used*
L2S	*Matthews 44C-2T Village Green*	*not used*
L3S	*Matthews 36B-2D Harvest*	*not used*
L4S	*Matthews 11B-1P Country Way*	*not used*
L5S	Matthews 1C-2T September Glory	Building 51 Secondary Color
L6S	*Matthews 72C-2T Savon Star*	*not used*
C(L)*	Color (of Level)	Read, "of Building". Abbreviation used in module layout pages to indicate variable elements
C(L)S	Secondary Color (of Level)	Accent color based on Level Color; used in orientation maps for contrast
C1	Matthews Nuance 13A-3P Alabaster	Sign base color
C2	Pantone Warm Gray 11	Default message type color (unless noted)
WH	White	Used in orientation maps and some pictographs
P300	Pantone 300 CV	Accessibility pictograph
P388	Pantone 388 CV	You Are Here symbol in orientation maps (alternate color)
P1375	Pantone 1375 CV	You Are Here symbol in orientation maps

Color Code Description

The sign system is designed to facilitate wayfinding for visitors to a complex site. A fundamental feature of the system is the convention of Level (or Building) Color Codes. In certain large buildings each level is assigned a distinctive color. Within each sign unit, items such as the Header Strip, room numbers, and pictographs are called out in the code color for that particular level. In the case of the Genome Sciences Laboratory, the color distinction is made between the three "modules", or wings, of Building 84 (West, Central, East). The module description pages provide specific information about individual signs.

A list of color codes used in this project is on the following page.

Color of Level

In this project, color of level refers to the *wing* in which the sign is located; i.e., when color C(L) is indicated, refer to the Sign Message Inventory, which is divided into West, Central, and East by level. For example, if sign number XXX is listed under Building 84 West Level 2; according to the Color Name Conventions chart it uses color LB wherever C(L) is indicated in the module description.

A special case is the use of Room Numbers. In other areas of the Lab, in directional signage a room number is always printed in the color of the level or building that the room is located in. Directional sign units in the HGC do not observe this distinction; all symbols and room numbers on the sign conform to the color of the sign *location*. The convention *is* observed in the Orientation modules; in this case, these color details will be included in the digital art files.

Color Code List

CODE	COLOR SPEC	FUNCTION
LB	Matthews 76B-4D Antioch Blue	Building 84 West Color
L1	Matthews 57C-4D Airland Blue	Building 84 East Color
L2	*Matthews 44C-4B Polo Green*	*not used*
L3	*Matthews 36B-4A Pigskin*	*not used*
L4	Matthews 11B-4D Light Earth	Building 74 Color
L5	Matthews 1C-4D Rich Plum	Building 84 Central Color
L6	*Matthews 72C-4D Violet Sequin*	*not used*
LBS	Matthews 76B-27 Breton	Building 84 West Secondary Color
L1S	Matthews 57C-2T Aquamarine Blue	Building 84 East Secondary Color
L2S	*Matthews 44C-2T Village Green*	*not used*
L3S	*Matthews 36B-2D Harvest*	*not used*
L4S	Matthews 11B-1P Country Way	Building 74 Secondary Color
L5S	Matthews 1C-2T September Glory	Building 84 Central Secondary Color
L6S	*Matthews 72C-2T Savon Star*	*not used*
C(L)*	Color (of Level)	Read, "of Building" or "of Module". Abbreviation used in module layout pages to indicate variable elements
C(L)S	Secondary Color (of Level)	Accent color based on Level Color; used in orientation maps for contrast
C1	Matthews Nuance 13A-3P Alabaster	Sign base color
C2	Pantone Warm Gray 11	Default message type color (unless noted)
WH	White	Used in orientation maps and some pictographs
P300	Pantone 300 CV	Accessibility pictograph
P388	Pantone 388 CV	You Are Here symbol in orientation maps (alternate color)
P1375	Pantone 1375 CV	You Are Here symbol in orientation maps

Color Code Description

Building 100 uses a single color for the entire building.

A list of the color codes used in this project is on the following page.

Color of Level

In this project, color of level refers to the *building* in which the sign is located; i.e., when color C(L) is indicated, refer to the color code list on the following page for the Buiding Color. In this case, Building 100 is a single-story structure with a simple color palette.

Color Code List

CODE	COLOR SPEC	FUNCTION
LB	*Matthews 76B-4D Antioch Blue*	*not used*
L1	*Matthews 57C-4D Airland Blue*	*not used*
L2	*Matthews 44C-4B Polo Green*	*not used*
L3	*Matthews 36B-4A Pigskin*	*not used*
L4	Matthews 11B-4D Light Earth	Building 100 Color
L5	*Matthews 1C-4D Rich Plum*	*not used*
L6	*Matthews 72C-4D Violet Sequin*	*not used*
LBS	*Matthews 76B-27 Breton*	*not used*
L1S	*Matthews 57C-2T Aquamarine Blue*	*not used*
L2S	*Matthews 44C-2T Village Green*	*not used*
L3S	*Matthews 36B-2D Harvest*	*not used*
L4S	Matthews 11B-1P Country Way	Building 100 Secondary Color
L5S	*Matthews 1C-2T September Glory*	*not used*
L6S	*Matthews 72C-2T Savon Star*	*not used*
C(L)*	Color (of Level)	Read, "of Building". Abbreviation used in module layout pages to indicate variable elements
C(L)S	Secondary Color (of Level)	Accent color based on Level Color; used in orientation maps for contrast
C1	Matthews Nuance 13A-3P Alabaster	Sign base color
C2	Pantone Warm Gray 11	Default message type color (unless noted)
WH	White	Used in orientation maps and some pictographs
P300	Pantone 300 CV	Accessibility pictograph
P388	*Pantone 388 CV*	*You Are Here symbol in orientation maps (alternate color)*
P1375	Pantone 1375 CV	You Are Here symbol in orientation maps
PCG5	Pantone Cool Gray 5	Inset site map in orientation maps

Color Code Description

Building 400 uses a single color for the entire building.

A list of the color codes used in this project is on the following page.

Color of Level

In this project, color of level refers to the *building* in which the sign is located; i.e., when color C(L) is indicated, refer to the color code list on the following page for the Buiding Color. In this case, Building 400 is a single-story structure with a simple color palette.

Color Code List

CODE	COLOR SPEC	FUNCTION
LB	*Matthews 76B-4D Antioch Blue*	*not used*
L1	Matthews 57C-4D Airland Blue	Building 400 Color
L2	*Matthews 44C-4B Polo Green*	*not used*
L3	*Matthews 36B-4A Pigskin*	*not used*
L4	*Matthews 11B-4D Light Earth*	*not used*
L5	*Matthews 1C-4D Rich Plum*	*not used*
L6	*Matthews 72C-4D Violet Sequin*	*not used*
LBS	*Matthews 76B-27 Breton*	*not used*
L1S	Matthews 57C-2T Aquamarine Blue	Building 400 Secondary Color
L2S	*Matthews 44C-2T Village Green*	*not used*
L3S	*Matthews 36B-2D Harvest*	*not used*
L4S	*Matthews 11B-1P Country Way*	*not used*
L5S	*Matthews 1C-2T September Glory*	*not used*
L6S	*Matthews 72C-2T Savon Star*	*not used*
C(L)*	Color (of Level)	Read, "of Building". Abbreviation used in module layout pages to indicate variable elements
C(L)S	Secondary Color (of Level)	Accent color based on Level Color; used in orientation maps for contrast
C1	Matthews Nuance 13A-3P Alabaster	Sign base color
C2	Pantone Warm Gray 11	Default message type color (unless noted)
WH	White	Used in orientation maps and some pictographs
P300	Pantone 300 CV	Accessibility pictograph
P388	*Pantone 388 CV*	*You Are Here symbol in orientation maps (alternate color)*
P1375	Pantone 1375 CV	You Are Here symbol in orientation maps
PCG5	Pantone Cool Gray 5	Inset site map in orientation maps

Color Code Description

Building 937 uses a single color for the entire building.

A list of the color codes used in this project is on the following page.

Color of Level
In this project, color of level refers to the *building* in which the sign is located; i.e., when color C(L) is indicated, refer to the color code list on the following page for the Buiding Color. In this case, Building 937 is a multi-story structure with a simple color palette.

Color Code List

CODE	COLOR SPEC	FUNCTION
LB	Matthews 76B-4D Antioch Blue	Building 937 Color
L1	*Matthews 57C-4D Airland Blue*	*not used*
L2	*Matthews 44C-4B Polo Green*	*not used*
L3	*Matthews 36B-4A Pigskin*	*not used*
L4	*Matthews 11B-4D Light Earth*	*not used*
L5	*Matthews 1C-4D Rich Plum*	*not used*
L6	*Matthews 72C-4D Violet Sequin*	*not used*
LBS	Matthews 76B-27 Breton	Building 937 Secondary Color
L1S	*Matthews 57C-2T Aquamarine Blue*	*not used*
L2S	*Matthews 44C-2T Village Green*	*not used*
L3S	*Matthews 36B-2D Harvest*	*not used*
L4S	*Matthews 11B-1P Country Way*	*not used*
L5S	*Matthews 1C-2T September Glory*	*not used*
L6S	*Matthews 72C-2T Savon Star*	*not used*
C(L)*	Color (of Level)	Read, "of Building". Abbreviation used in module layout pages to indicate variable elements
C(L)S	Secondary Color (of Level)	Accent color based on Level Color; used in orientation maps for contrast
C1	Matthews Nuance 13A-3P Alabaster	Sign base color
C2	Pantone Warm Gray 11	Default message type color (unless noted)
WH	White	Used in orientation maps and some pictographs
P300	Pantone 300 CV	Accessibility pictograph
P388	*Pantone 388 CV*	*You Are Here symbol in orientation maps (alternate color)*
P1375	Pantone 1375 CV	You Are Here symbol in orientation maps

Color
Swatches

Interior

CODE	VENDOR CODE	COLOR NAME
LB	Matthews 76B-4D	Antioch Blue
LBS	Matthews 76B-2T	Breton
L1	Matthews 57C-4D	Airland Blue
L1S	Matthews 57C-2T	Aquamarine Blue

Interior

CODE	VENDOR CODE	COLOR NAME
L2	Matthews 44C-4B	Polo Green
L2S	Matthews 44C-2T	Village Green
L3	Matthews 36B-4A	Pigskin
L3S	Matthews 36B-2D	Harvest

Interior

CODE	VENDOR CODE	COLOR NAME

L4   Matthews 11B-4D   Light Earth

L4S   Matthews 11B-1P   Country Way

L5   Matthews 1C-4D   Rich Plum

L5S   Matthews 1C-2T   September Glory

Interior

CODE	VENDOR CODE	COLOR NAME
L6	Matthews 72C-4D	Violet Sequin
L6S	Matthews 72C-2T	Savon Star
C1	Matthews 13A-3P	Alabaster
C2	Pantone Warm Gray 11 CV	Message Gray

Interior

CODE	VENDOR CODE	COLOR NAME
P300	Pantone 300 CV	[Accessibility Pictograph]
P388	Pantone 388 CV	[You Are Here] alternate
P1375	Pantone 1375 CV	[You Are Here]
WH	[none]	White

Berkeley Lab

Signage
and Public
Information
Standards
Manual

Volume 2:
Exterior Signage

Version 2.0
1.25.00

Studio L'Image

Contents

Contents

Volume 2: Exterior Signage

Exterior Module Descriptions (continued)

*material not currently available

Preface

Exterior Standards

The exterior signage system is in the process of being installed lab-wide. Materials, finishes, and colors will be required to match existing system components to a high degree of exactitude, subject to the approval of the design team. This document addresses the standards in detail. Any questions regarding colors, finishes, or fabrication details should be directed to the design team.

Art Creation

Vendors will be responsible for setting type to specifications provided. Design team will be responsible for providing artwork for maps, arrows, pictographs, logos and symbols used in the signage. Vendor should inform the design team of any format requirements or preferences.

Changes

The specifications in this document supercede all previous documents.

Design Team

Questions about the specifications in this document may be addressed to the design team:

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Copyright Statement

Exterior Signage Conventions

Pedestrian Directional
Scale 1:20

Vehicular Directional
Scale 1:20

← 4 ALS User Office
7 ALS Receiving

→ 2 ALS Experimental Systems Group
2 Center for X-Ray Optics
6 Advanced Light Source
54 Cafeteria
80 ALS Offices and Support

↑ 2 ALS Experimental Systems Group
2 Center for X-Ray Optics
4 ALS User Office
6 Advanced Light Source
7 ALS Receiving
P Parking Lot F
Station 9

Directional
Primary
Code: DP
Module Type: XH
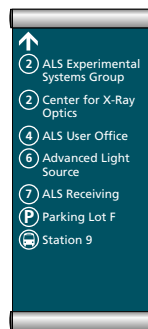
Directional
Secondary
Code: DS
Module Type: XJ

Directional
Tertiary
Code: DT
Module Type: XK

← Lawrence Rd. E.
6 50 54 66
72 88 90
Exit

→ Calvin Road
74 83 84 85
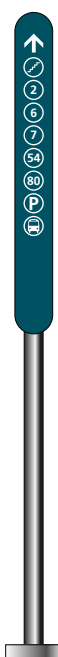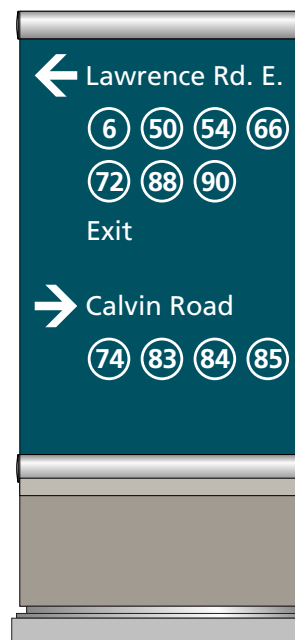
Directional
Primary Vehicular
Code: DPV
Module Type: XN

Parking Identification
Scale 1:20

Road Identification
Scale 1:20

Orientation
Scale 1:20

Parking Lot

F

→

(2) ALS Experimental
Systems Group

(2) Center for X-Ray
Optics

(4) ALS User Office

(6) Advanced Light
Source

(7) ALS Receiving

(80) ALS Offices
and Support

Parking Lot

E

McMillan Road

(2) ALS Experimental   (7) ALS Receiving
Systems Group

(2) Center for   (54) Cafeteria
X-Ray Optics

(6) Advanced   (80) ALS Offices
Light Source   and Support
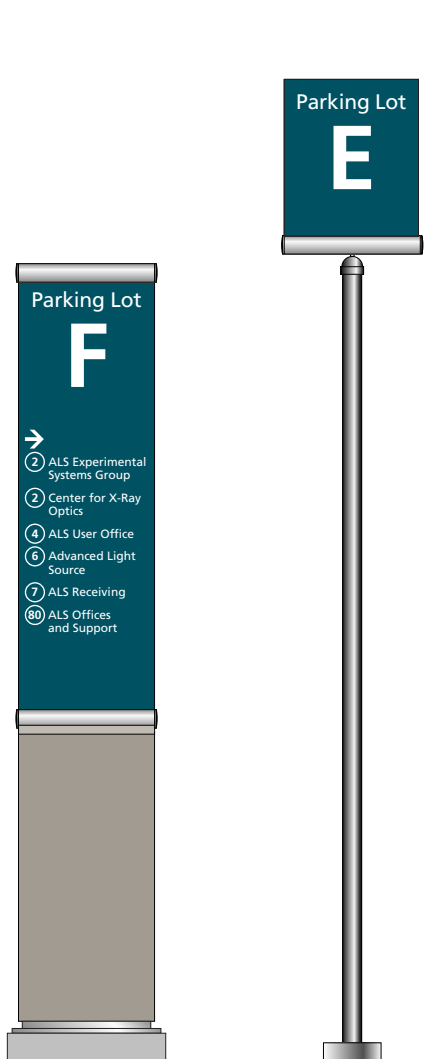
Identification
Primary Parking
Code: IPK
Module Type: XP
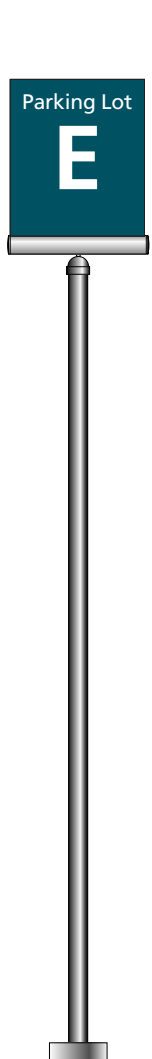
Identification
Secondary Parking
Code: ISK
Module Type: XQ
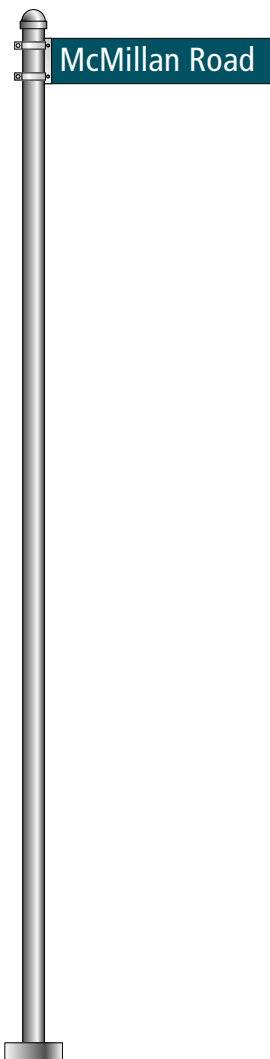
Identification
Tertiary Road
Code: ITR
Module Type: XR
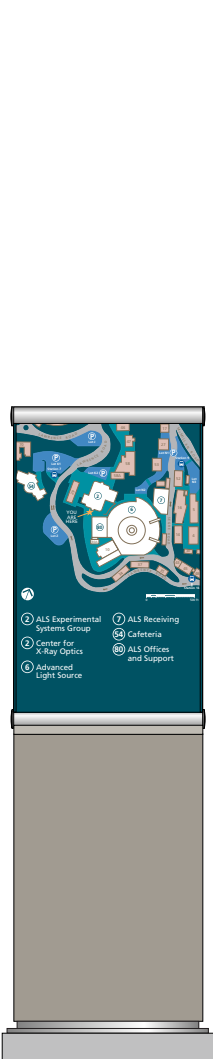
Orientation
Primary
Code: OP
Module Type: XL

Sign Unit Code

Throughout this document, each exterior sign unit is identified by a three-part code. The Sign Message Inventory list breaks out the code in the first three columns.

1. Function Code
Identifies functional type and hierarchy.

(1) Major Categories   *Detail Codes*
D = Directional   K = Parking
I = Identification   R = Road
O = Orientationl   V = Vehicular
(2) Hierarchy
P = Primary
S = Secondary
T = Tertiary

Examples of use:

DP = Directional Primary
IPK = Identification Primary Parking
OP = Orientation Primary

2. Sign Number
A 5-digit number uniquely identifies each individual sign.

2A. The first digit refers to the Exterior Signage Area (1–7) in which the sign is located. See Appendix B for a map of the exterior signage areas.

2B. The next two digits identify the building number for signs attached to buildings. For the signs in this volume, the digits are 00.

2C. The last two digits are the sign number.*

3. Module Type
The exterior system module types are designated XA, XB, and so on to distinguish them from the interior signage module letter series. Each module type defines a particular sign dimension and layout. Any one module type may be used for multiple functions, with the difference being the content of the discrete panels. Construction of each module type is described in section 3.00. Specifications common to all modules are covered in this section.

DP.40011.XH

① ②A ②B ②C ③
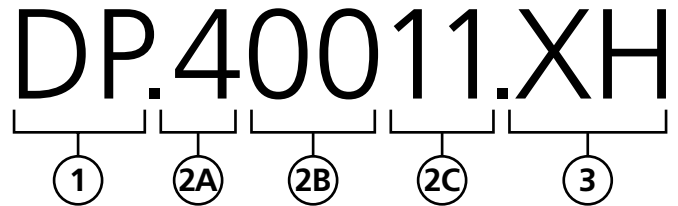
*NOTE: Signs are numbered from ###01 within each functional area. Alphabetic suffixes such as 90<u>A</u> are ignored for the purpose of numeration.

Sign Module Types

Exterior Function Codes and Module Types

Code	Description	Module Type
DP	Directional Primary	XH
DPV	Directional Primary Vehicular	XN
DS	Directional Secondary	XJ
DT	Directional Tertiary	XK
IPK	Identification Primary Parking	XP
ISK	Identification Secondary Parking	XQ
ITR	Identification Tertiary Road	XR
OP	Orientation Primary	XL

Color Code Description

Three distinct programs of exterior signs have been installed at the Laboratory. Only one of these is described in this volume. The Color Code List on the following page shows the exterior signage color system. Not all colors may be required for any particular implementation. The module description pages (section 3.00) provide specific information about individual signs.

Exterior Signage

Pedestrian directional and informational signs feature a consistent Lab-wide color treatment. These signs include modules XH, XJ, XK, XL, XN, XP, XQ and XR. A list of color codes used in the exterior sign system is on the following page (2.03.02).

Building Identification

Building Identification signs include modules XA, XB, XC, XD, XE, and XF. These modules have their own color conventions, described in Volume 3.

Shuttle Bus Stations

The shuttle bus station pylon is module XG. This module and its color conventions are covered in Volume 3.

Color Code List

CODE	COLOR SPEC	FUNCTION
P1	Plochere G197	Pedestal color for pylon signs
P2	Matthews 64A-1A Cypress Blue	Message panel base color
WH	White	Type color; also used in orientation maps and pictographs
LB	Matthews 76B-4D Antioch Blue	Used in orientation maps
L1	Matthews 57C-4D Airland Blue	Used in orientation maps
L4S	Matthews 11B-1P Country Way	Used in orientation maps
P300	Pantone 300 CV	Accessibility pictograph
P1375	Pantone 1375 CV	You Are Here symbol in orientation maps
C03	Pantone 653 CV	Shuttle Bus symbol in orientation maps
PCG5	Pantone Cool Gray 5 CV	Used in orientation maps
C2	Pantone Warm Gray 11 CV	Used in orientation maps

Typography

The type family specified for all signs is Frutiger. Frutiger Roman is the standard weight used on all modules. Frutiger Bold is used for building numbers on directional and identification signs. Type size specifications for specific signs are given in the Module Description pages.

Frutiger Roman

abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ 1234567890.,:
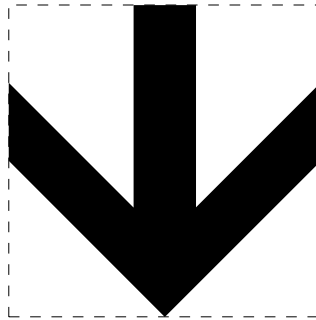
Frutiger Bold

abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ 1234567890.,:

Arrow Art

The arrow symbol used throughout the system has been specifically designed to harmonize with the chosen typefaces. The signage vendor should use the arrow art as shown on this page and supplied as digital art on disk.
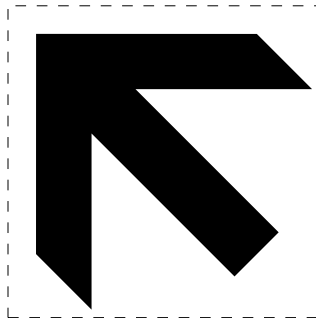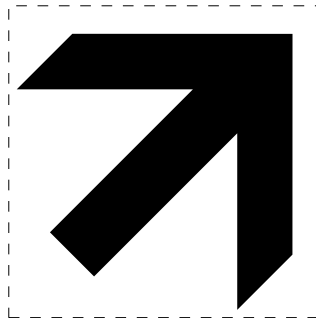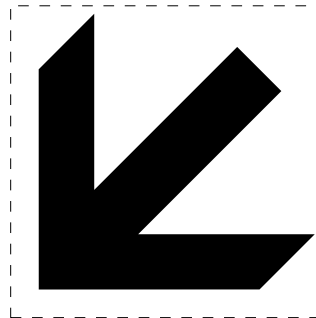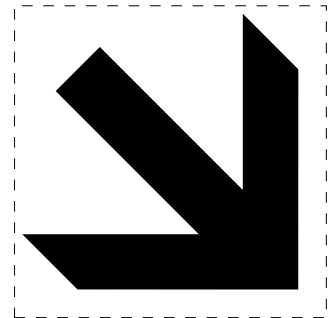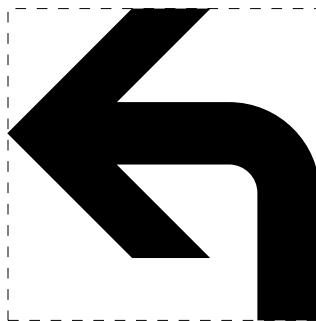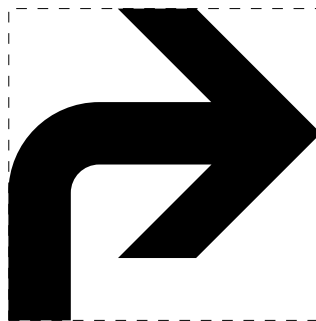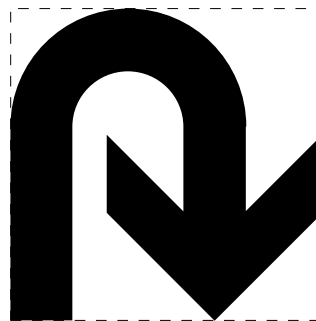
Up

Down

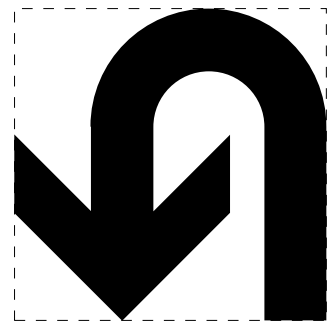Left

Right

Up Left

Up Right

Down Left
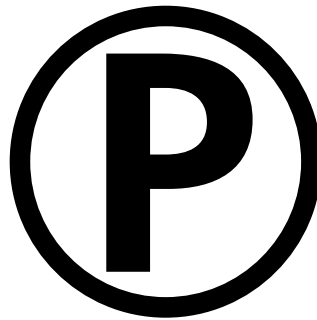
Down Right

90° Left

90° Right

Back Right

Back Left

Pictographs

These pictographs have been chosen to harmonize with the standard signage typefaces. The signage vendor should use the art as shown on this page and supplied as digital art on disk.
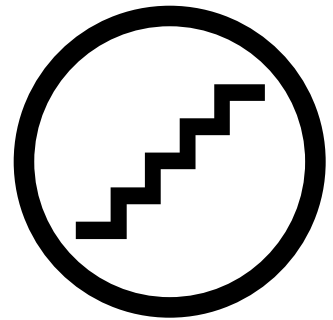
Accessibility   Parking   Shuttle Bus   Stairs

General Description

The exterior signs can be divided into three groups: pylon, post, and wall-mounted. The sign modules within each group are constructed and mounted using similar principles, but with individual dimensional differences.

The following pages illustrate the mounting specifications for each of the module types, arranged by groups. Specific placement of individual signs is determined by site considerations, and cannot be described in this manual.

Pylon

Pylon-type modules include XH, XL, XN, and XP. The mounting specification consists of drawings for a concrete footing, with set-in bolts. The footings for the XH and XP modules are identical. The XL and XN footings are larger, with different bolt patterns.

Post

Post-mounted module types include XK, XQ, and XR. The mounting specification describes the standard two inch i.d. galvanized steel post set into a concrete footing. The sign mounting hardware and total height above grade are different for each of these module types.

Wall-mounted

Wall-mounted exterior signs are relatively uncommon, and are used only where required by local conditions. The XJ module is essentially the upper part (message panel) of the XH module, without its pylon structure. In two instances the XQ module has been modified for wall mounting, in locations where post placement was not practical. The specification chiefly describes the height above grade, as the actual hardware may vary depending on the substrate.

Pylon Footing
Section View
Modules XH, XP

Scale 1:4

SIGN PEDESTAL SHELL

1/2" J-BOLT
SHOWN W/NUT
& 1" WASHER
(USE ACORN NUT
IF AVAILABLE)

STOP BRACKET

MAIN SUPPORT

3.0" MIN.

REVEAL CAP
REVEAL BLOCK

FOOTING

1.0" MIN.

3.00"

GRADE

8.00"

4.00"

4.00"

20.00"
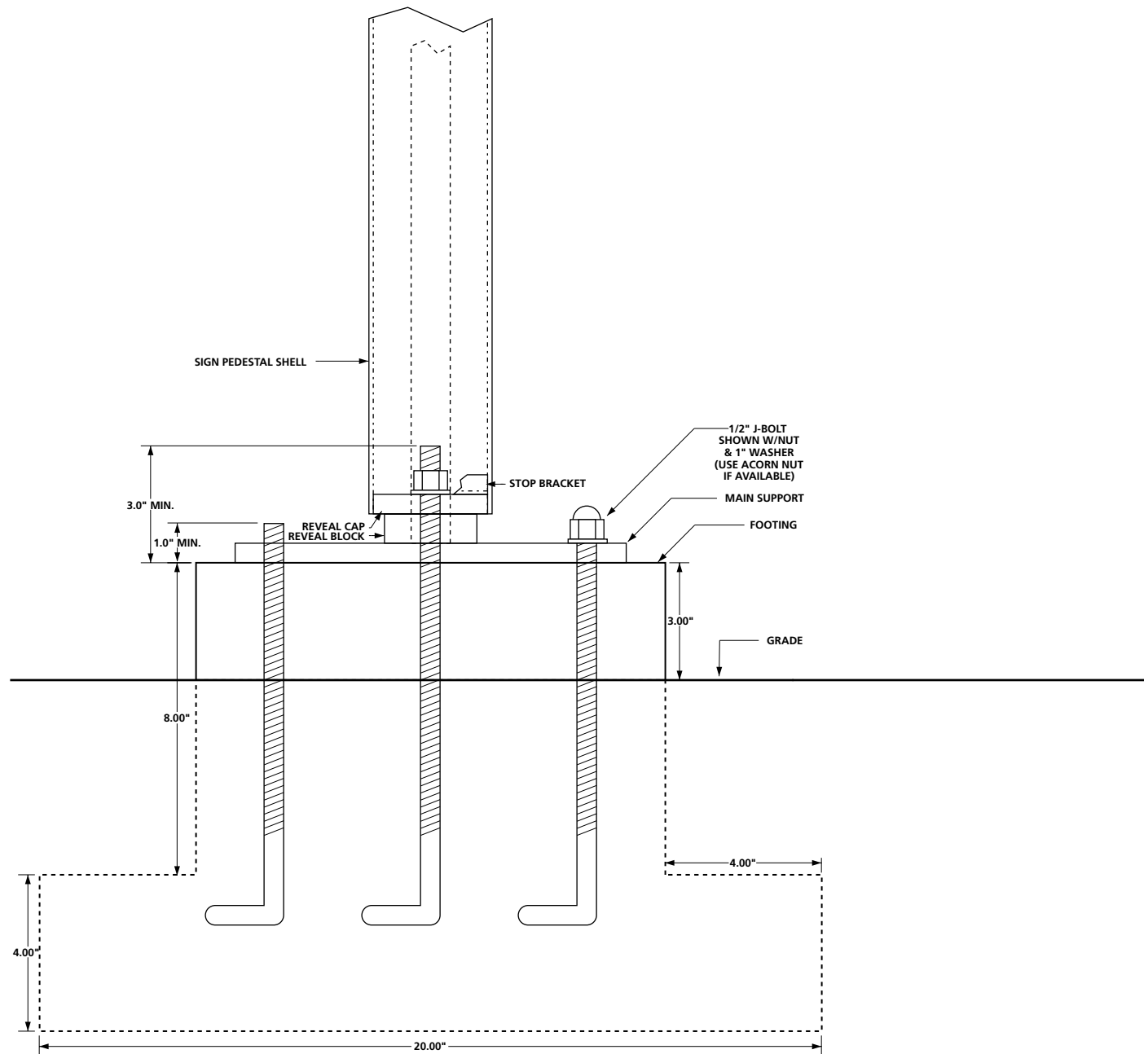
Pylon Footing
Section View
Modules XL, XN

Scale 1:4

SIGN PEDESTAL SHELL

STOP BRACKET

1/2" J-BOLT
SHOWN W/NUT
& 1" WASHER
(USE ACORN NUT
IF AVAILABLE)

3.0" MIN.

REVEAL CAP
REVEAL BLOCK

MAIN SUPPORT

1.0" MIN.

FOOTING

3.00"

GRADE

8.00"

4.00"

4.00"

20.00"

Pylon Footing
Plan View
Modules XH, XP

Scale 1:4

20.0"

12.0"

10.0"
C/L

4.25"

1/2" J-BOLT

8.0" C/L

15.50" 16.50"

1/2" J-BOLT

1/2" J-BOLT
SHOWN W/NUT
& 1" WASHER
(USE ACORN NUT
IF AVAILABLE)

4.25"

1/2" J-BOLT

ABOVE GRADE FOOTING

MAIN SUPPORT BASE

REVEAL BLOCK

SIGN PEDESTAL SHELL

8.0"   2.0"

FOOTING EXTENSION
(BELOW GRADE)
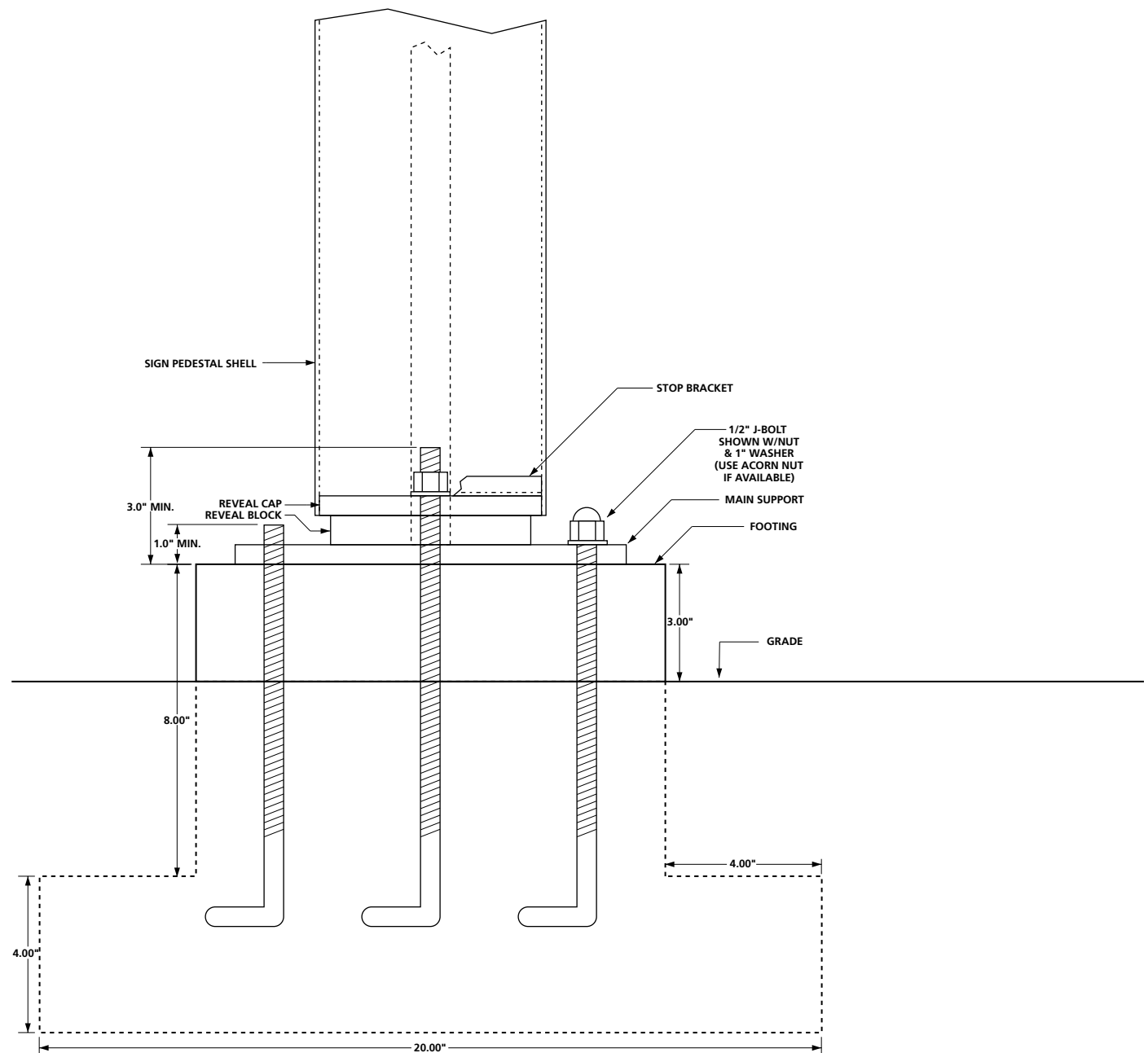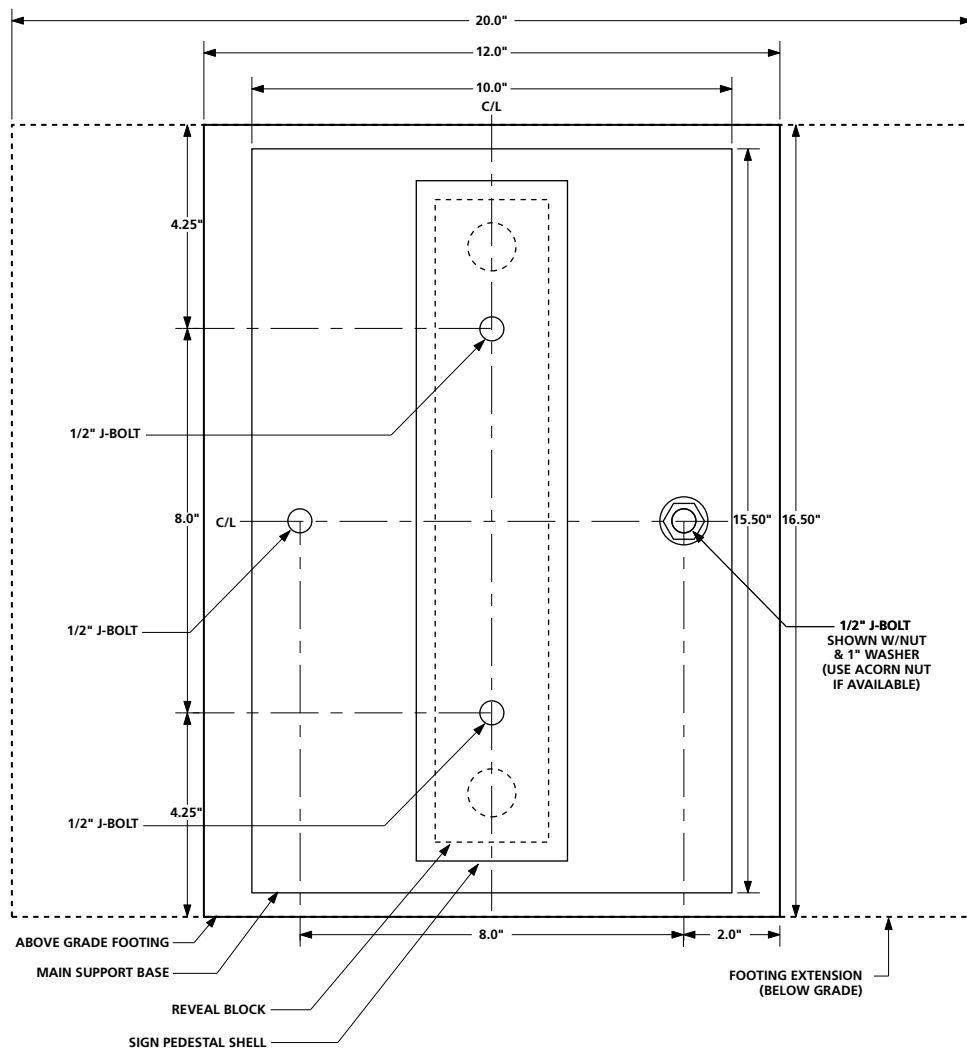
Pylon Footing
Plan View
Module XL

Scale 1:4

20.0"
12.0"
8.0"
2.0"
10.0"
3.0"
5.0"

1/2" J-BOLT
PROTRUDES
1" ABOVE DECK

1/2" J-BOLT
PROTRUDES
1" ABOVE DECK

1/2" J-BOLT
PROTRUDES
3" ABOVE DECK

1/2" J-BOLT
PROTRUDES
3" ABOVE DECK

12.0"
22.0"
21.0" **16.0"**

1/2" J-BOLT
PROTRUDES
1" ABOVE DECK

1/2" J-BOLT
PROTRUDES
1" ABOVE DECK

5.0"

ABOVE GRADE FOOTING

MAIN SUPPORT BASE

REVEAL BLOCK

SIGN PEDESTAL SHELL

C/L

FOOTING EXTENSION
(BELOW GRADE)

Pylon Footing
Plan View
Module XN

Scale 1:4

FOOTING EXTENSION (BELOW GRADE)

12.0"

2.0"

8.0"

10.0"

3.0"

REVEAL BLOCK

SIGN PEDESTAL SHELL

MAIN SUPPORT BASE

ABOVE GRADE FOOTING

8.0"

1/2" J-BOLT PROTRUDES 1" ABOVE DECK

13.0"

1/2" J-BOLT PROTRUDES 3" ABOVE DECK

16.0"

32.0"

31.0"

1/2" J-BOLT PROTRUDES 1" ABOVE DECK

13.0"

1/2" J-BOLT PROTRUDES 3" ABOVE DECK

8.0"

1/2" J-BOLT PROTRUDES 1" ABOVE DECK

3.0"

C/L

20.0"

Post Footing Details
Mounting Height Dimensions
Module XK

Scale 1:10 (dimensions in inches)

Cap

Stainless steel
band clamp

Stainless steel
band clamp

Stainless steel
band clamp

68.00
top edge
of sign panel
above grade

66.00
post height
above grade
(not including
cap)

2.00

Grade

Radius edge
0.25

2.25 (2.00 i.d.) steel post

6.00

6.00

Poured
concrete
footing

22.00

18.00

12.00

*Note how flanges butt
when 2 signs are mounted
at right angles*

Post Footing Details
Mounting Height Dimensions
Module XQ

Scale 1:10
(dimensions in inches)

Parking Lot

E

min. 84.00
bottom edge
of sign unit
above grade

min. 82.50
post height
above grade
(not including
cap)

Cap is attached to
and provided as
part of sign unit

2.00

Grade

6.00

Poured
concrete
footing

22.00

18.00

Radius edge
0.25

2.25 (2.00 i.d.) steel post

6.00

12.00

Post Footing Details
Mounting Height Dimensions
Module XR

Scale 1:10
(dimensions in inches except where noted)

600 mm

Segrè Road

120
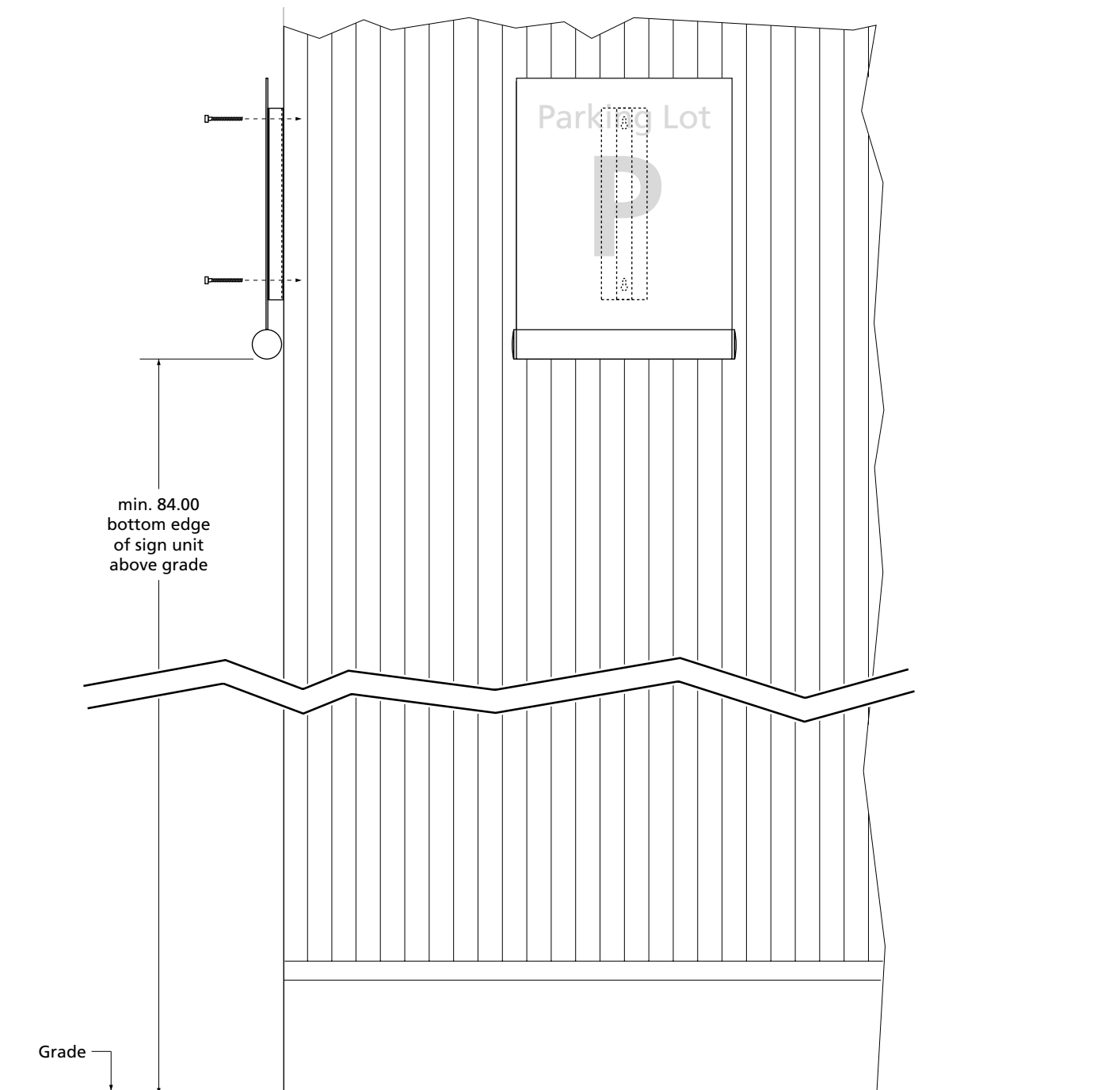
1 in. min. (may be more)

1 inch (spacing between stacked units)

Chamberlain Rd

McMillan Road

Cap

90 in. minimum height,
lower edge,
bottom sign module

Standard pole height
above grade (not
including cap) = 108 in.

2.25 (2.00 i.d.) steel post

Grade

2.00

Radius edge
0.25

6.00

6.00

22.00

18.00

Poured
concrete
footing

Angle between
signs varies
according to
location.

12.00

Wall Mount Details
Height Dimensions
Module XJ

Scale 1:10
(dimensions in inches)

6 in.

2 ALS Experimental
Systems Group

2 Center for
X-Ray Optics

4 Building 4

6 Advanced
Light Source

6 ALS User Services

7 ALS Receiving

P Parking Lot N

Station 9

68 in.

Wall Mount Details
Height Dimensions
Module XQ

Scale 1:10
(dimensions in inches)

Parking Lot

P

min. 84.00
bottom edge
of sign unit
above grade

Grade

Pylon Structure
Front View
Module XH (XL, XN, XP similar)

Scale 1:10

MAIN SUPPORT UNIT

OUTER SHELL

NUT
WASHER
REVEAL BLOCK & CAP

FIXED NUT (ON MAIN SUPPORT)

1" ANGLE BRACKET FIXED TO INSIDE OF TOP TUBE (VERTICAL ADJUSTMENT SLOT)

END CAP

SCREW

NUT
WASHER

ANGLE "STOP" BRACKET (INSIDE SHELL)

FOOTING

GRADE
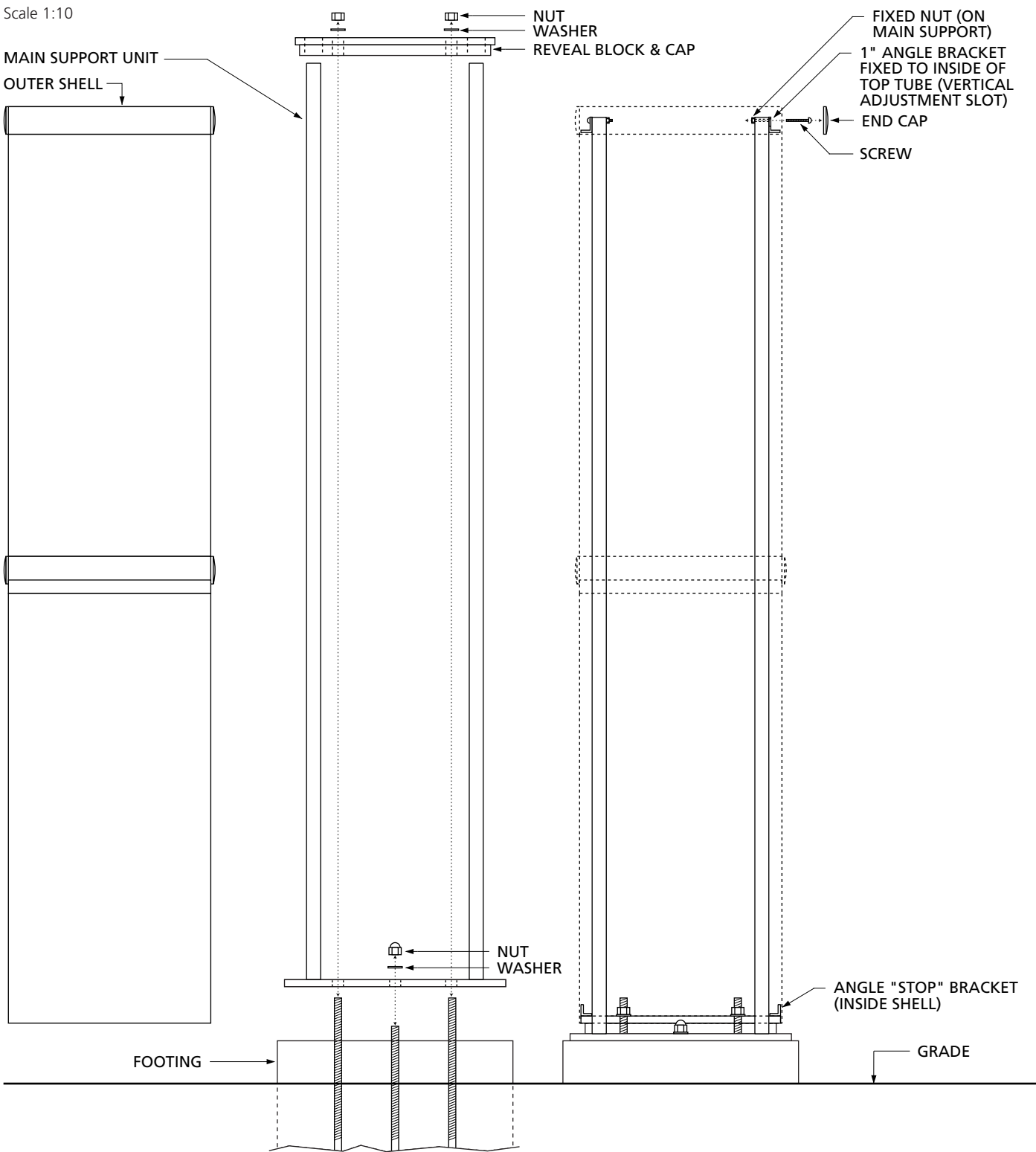
Pylon Structure
Exploded Section View
Modules XH, XP (XL, XN similar)

Scale 1:4

SIGN OUTER SHELL (UPPER TUBE DETAIL SHOWN)
1" ANGLE BRACKET WITH VERTICAL SLOT

SIGN OUTER SHELL (LOWER PEDESTAL DETAIL SHOWN)
ANGLE "STOP" BRACKET

THROUGH HOLE WITH FIXED NUT

REVEAL CAP
(WELDED TO
REVEAL BLOCK)

NUT

WASHER

0.50"

1" DIA. ALUMINUM TUBE
(WELDED TO MAIN SUPPORT BASE)

0.75"

NUT

WASHER

REVEAL BLOCK

10.00"

0.50"

MAIN SUPPORT BASE

12.00"

3.00"

GRADE

8.00"

4.00"

4.00"

20.00"
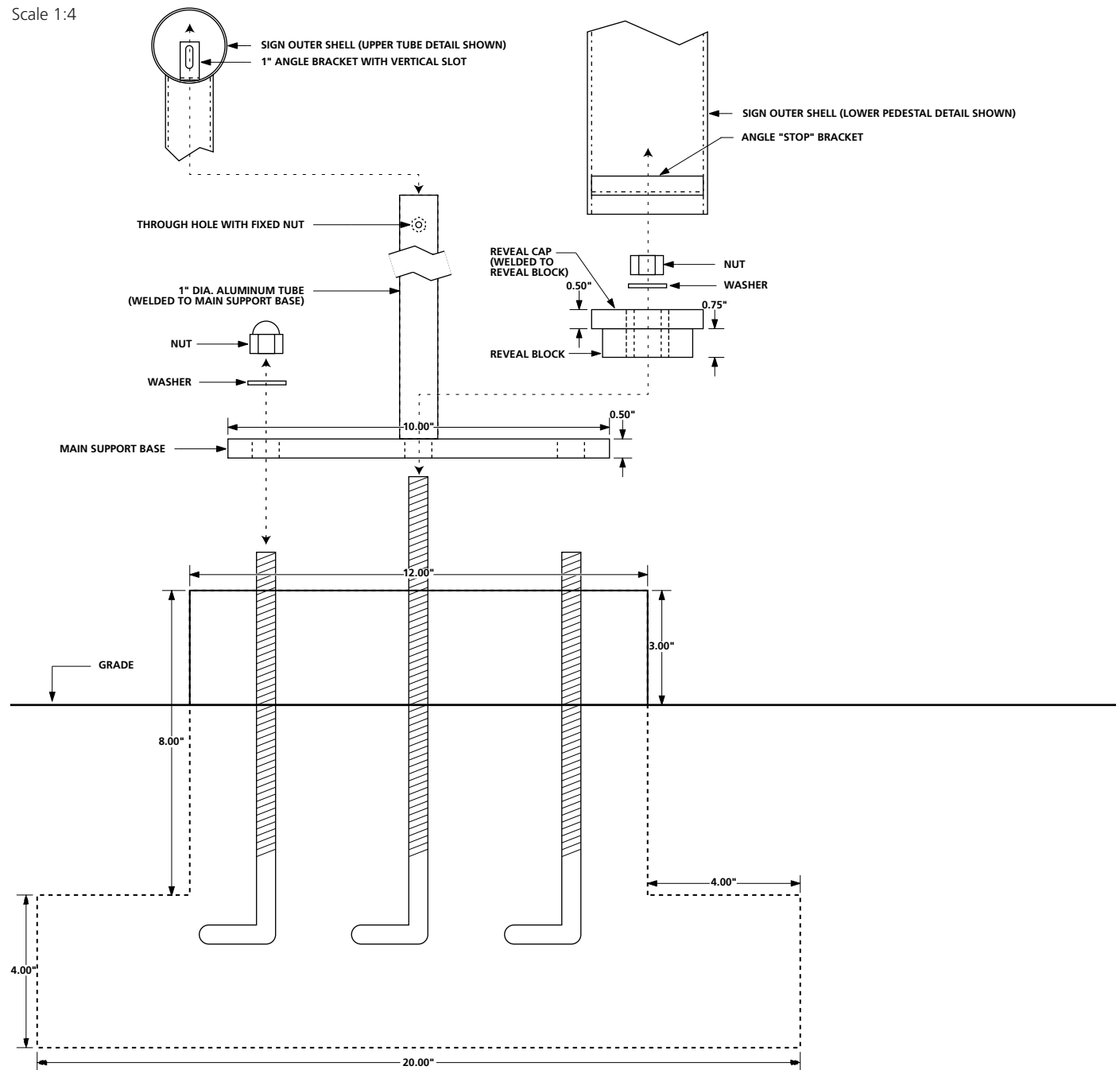
Bracket Structure
Module XK

Scale 1:2

Stainless steel
band clamp

*Note how flanges butt
when 2 signs are mounted
at right angles. In some cases
3 signs may be mounted
on one pole.*

100mm

Stainless steel
band clamp

Cap

Stainless steel
band clamp

2.25   1.00
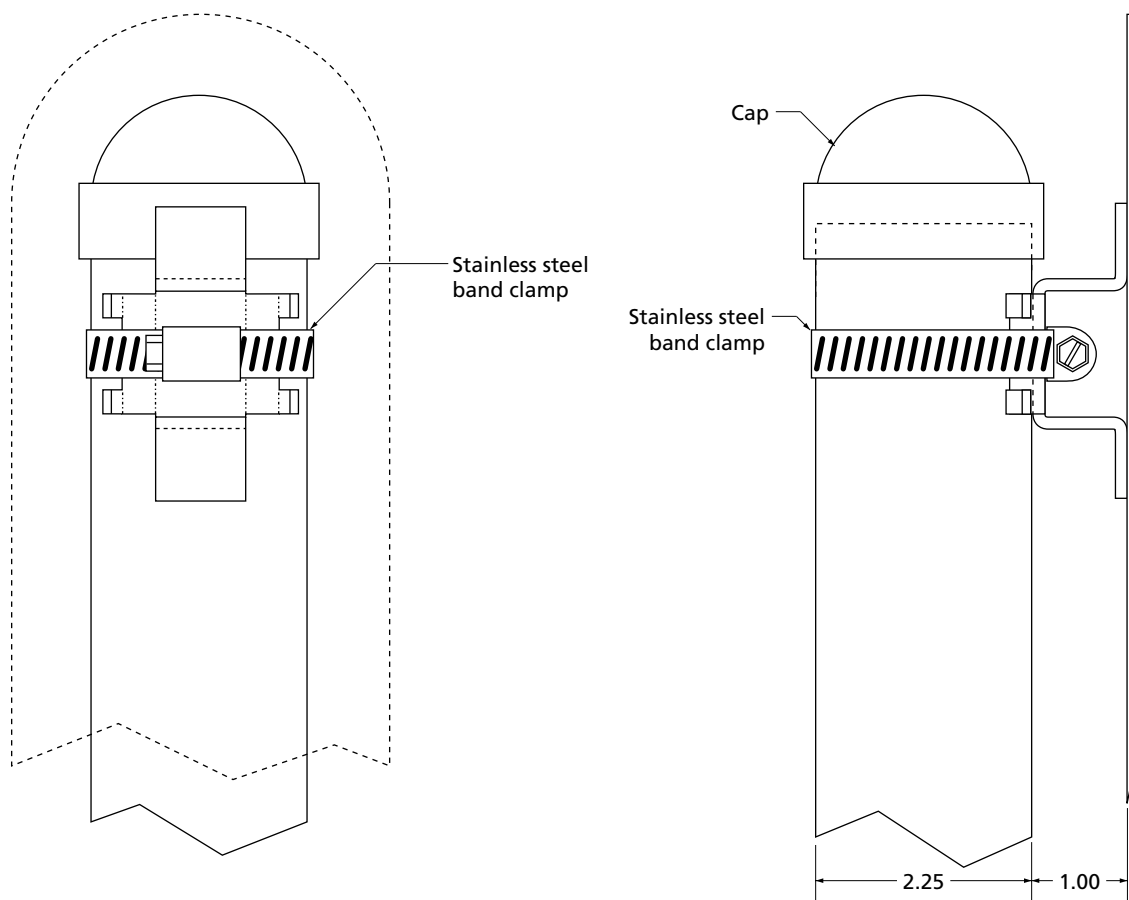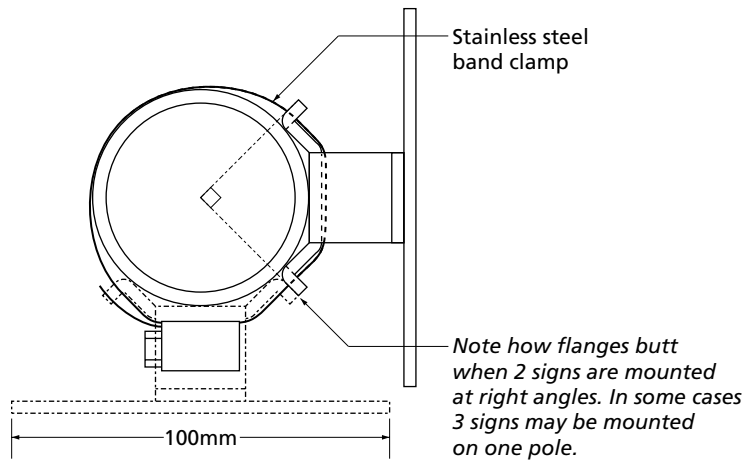
Bracket Structure
Wall Mount
Module XQ

Scale 1:4
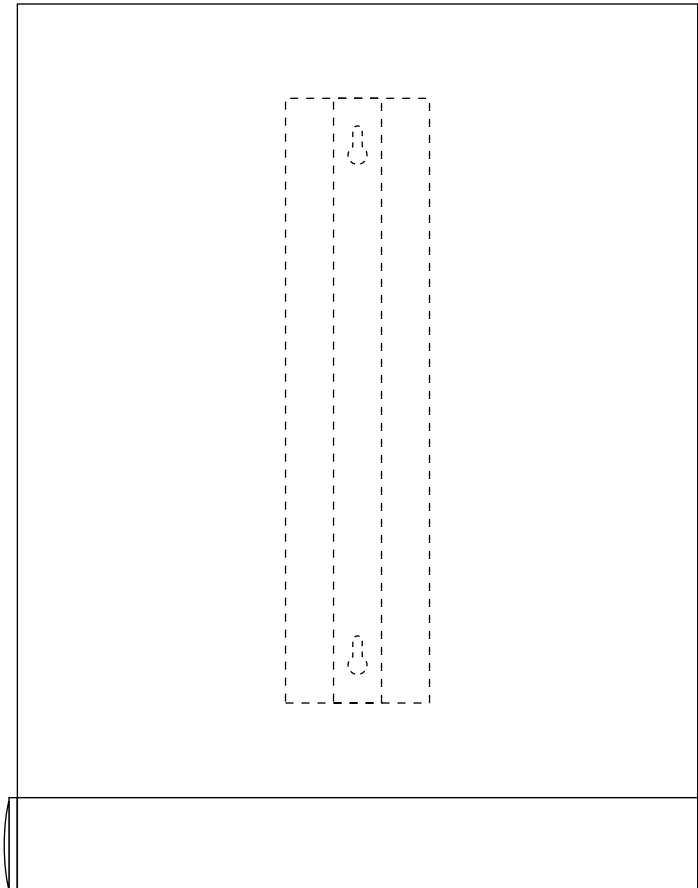
ISK.50003.XQ.a

SIDE VIEW

**WALL-MOUNT
FRONT VIEW**
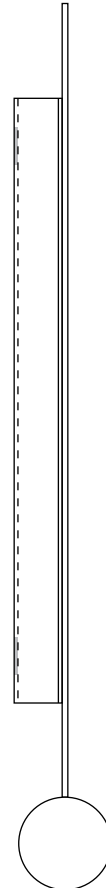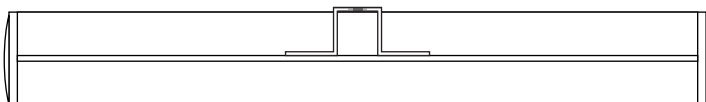
TOP VIEW

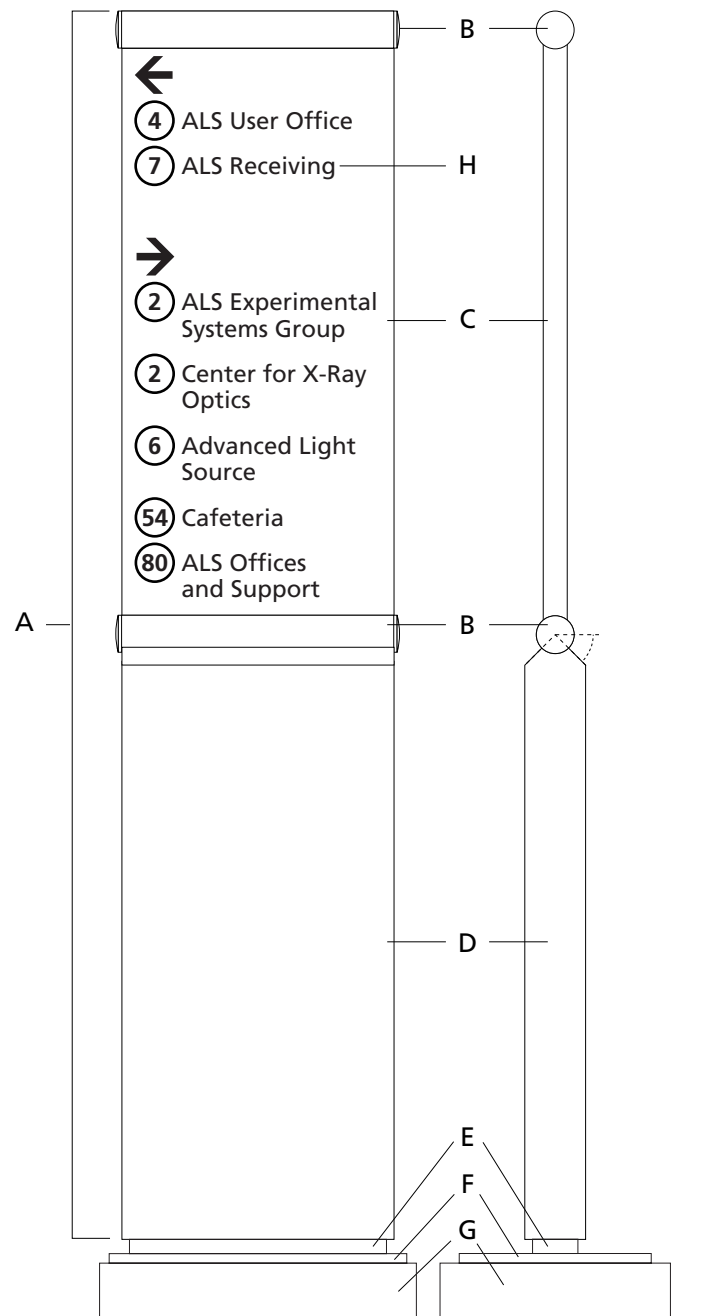# Exterior Module Descriptions

Module XH
Directional Primary
DP.00000.XH

The XH Module is a 2-sided pedestal-style unit. It displays directional information in the form of arrows, pictographs, building numbers, and building and department names. Refer to the Sign Message Inventory list for specific messages. In the Sign Message Inventory list, the front- and rear-facing message panels are referred to as Message Panels A and B, respectively. Occasionally, due to sign location, the B panel will be left blank.

←

(4) ALS User Office
(7) ALS Receiving

→

(2) ALS Experimental
    Systems Group
(2) Center for X-Ray
    Optics
(6) Advanced Light
    Source
(54) Cafeteria
(80) ALS Offices
     and Support
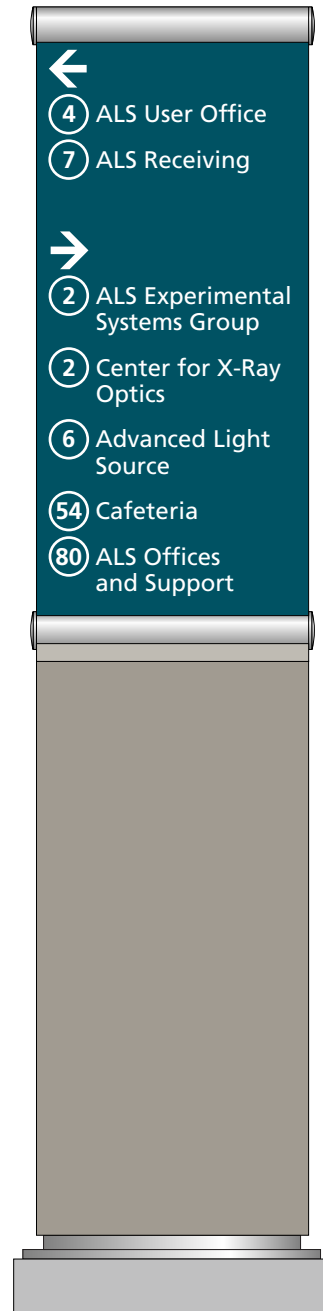
Module XH
Construction

Scale 1:10

A. Outer shell. 0.080" aluminum box structure. Items B through D are permanent parts of this shell.

B. 50mm dia. aluminum tube trim detail. Brushed aluminum finish with clearcoat. Plated steel endcaps. Upper pair of endcaps is removable; conceals mounting screws. See detail drawings, section 2.06.

C. Message section. 2-sided with finished returns. Color: P2. Semigloss, smooth finish. 360 x 800 (from top tube centerline to bottom tube centerline) x 32mm .

D. Pedestal section. Note beveled top @ 45° angle. Color: P1. Semigloss, light texture. 360 x 800 (to centerline of tube) x 80mm.

E. Reveal block. 0.75" aluminum. See footing detail drawings, section 2.05.

F. Main support base. 0.5" aluminum. See footing detail drawings, section 2.05.

G. Concrete footer. To be installed by Lab crew. See footing detail drawings, section 2.05.
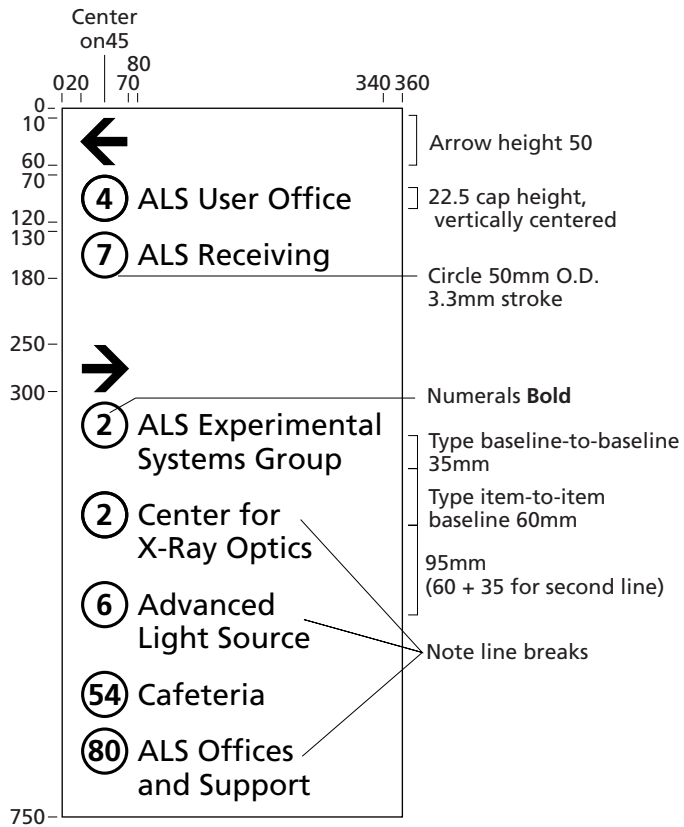
H. Vinyl letters and art. Color: WH

(4) ALS User Office
(7) ALS Receiving
(2) ALS Experimental Systems Group
(2) Center for X-Ray Optics
(6) Advanced Light Source
(54) Cafeteria
(80) ALS Offices and Support

DP.40006.XH

Module XH
Graphic Specifications

Scale 1:8

Center
on45
80
020 70
340 360
0
10
60
70
120
130
180
250
300
750

← Arrow height 50

④ ALS User Office — 22.5 cap height,
vertically centered

⑦ ALS Receiving — Circle 50mm O.D.
3.3mm stroke

→

Numerals **Bold**

② ALS Experimental
Systems Group — Type baseline-to-baseline
35mm

② Center for
X-Ray Optics — Type item-to-item
baseline 60mm

⑥ Advanced
Light Source — 95mm
(60 + 35 for second line)

㊹ Cafeteria — Note line breaks

⑳ ALS Offices
and Support

DP.00000.XH

Module XJ
Directional Secondary
DS.00000.XJ

The XJ Module is a single-sided wall-mounted version of the XH message unit. It displays directional information in the form of arrows, pictographs, building numbers, and building and department names. Refer to the Sign Message Inventory list for specific messages.

↑

② ALS Experimental Systems Group

② Center for X-Ray Optics

④ ALS User Office

⑥ Advanced Light Source

⑦ ALS Receiving

Ⓟ Parking Lot F

🚌 Station 9
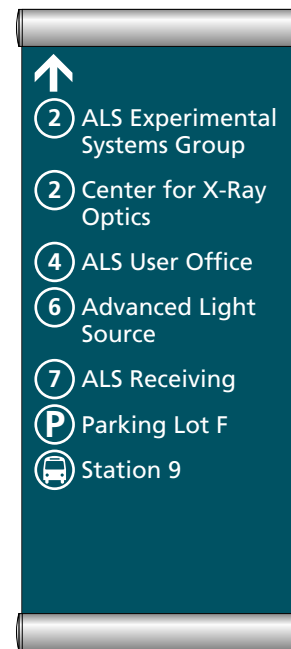
Module XJ
Construction

Construction
Scale 1:10

Construction is essentially similar to the upper (message) section of the XH module. 0.080" aluminum box structure. Items A through C are permanent parts of this shell.

A. 50mm dia. aluminum tube trim detail. Brushed aluminum finish with clearcoat. Plated steel endcaps.

B. Message section. 2-sided with finished returns. Color: P2. Semigloss, smooth finish. 360 x 750 x 32mm (not including tube details).

C. 25mm tubular standoffs. Brushed aluminum finish with clearcoat. Secured by setscrews to studs inserted in wall. Vendor may propose alternative mounting systems.

D. Vinyl letters and art. Color: WH

A

(2) ALS Experimental Systems Group

(2) Center for X-Ray Optics

C

(4) ALS User Office

(6) Advanced Light Source — B

(7) ALS Receiving — D

(P) Parking Lot F

Station 9

A

DS.40018.XJ
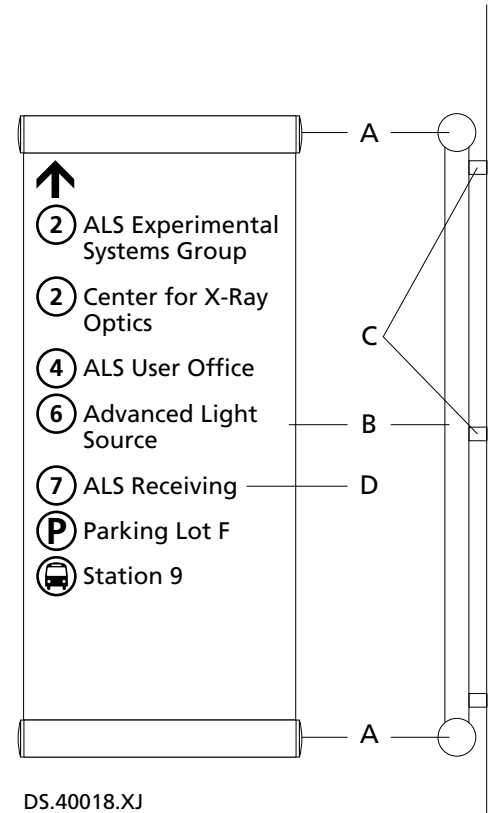
Module XJ
Graphic Specifications

Scale 1:8

Center
on
45 80
020   70   340 360

0
10   Arrow height 50

60
70
(2) ALS Experimental   22.5 cap height,
     Systems Group   vertically centered
120
130   Numerals **Bold**
165
(2) Center for
     X-Ray Optics

(4) ALS User Office   Note line breaks

(6) Advanced   Type baseline-to-baseline
     Light Source   35mm

(7) ALS Receiving   Type item-to-item
                                  baseline 60mm
(P) Parking Lot N
                                  Circle 50mm O.D.
     Station 9   3.3mm stroke

750
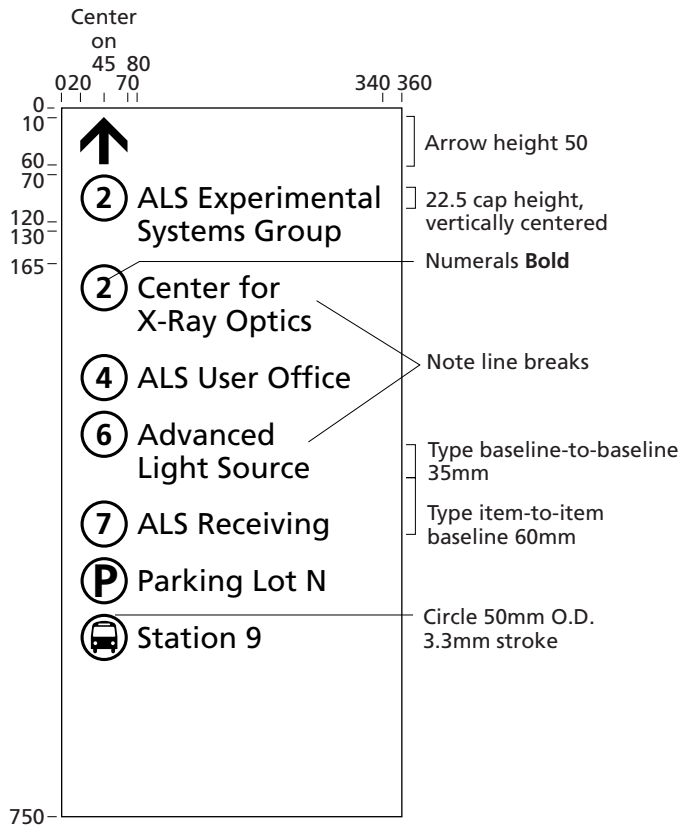
DS.00000.XJ

Module XK
Directional Tertiary
DT.00000.XK

The XK Module is a simple post-mounted panel that displays directional information in the form of arrows, pictographs, and building numbers. More than one of these modules may be attached to a single post, oriented in different directions at intervals of 90 degrees.
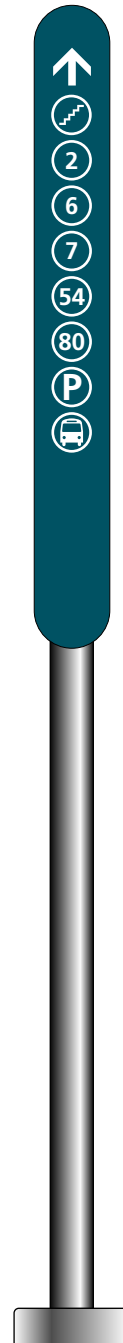
Module XK
Construction

Scale 1:10

A. Message panel. 1-sided aluminum panel. Radiused top and bottom. Color: P2. Semigloss, smooth finish. 100 x 850mm x 1/16 in. Detachable from post for maintenance.

B. 2 in. i.d. steel post. Lab installed. See section 2.05.

C. Mounting brackets. Aluminum, welded to sign panel. Sign is set off 1 in. from post to accommodate additional sign(s) at right angles. C-bracket with flanges designed to maintain 90° relationship between adjacent sign panels. See section 2.06 for details. Color: P2.

D. Stainless steel band clamps. Secure brackets to post. Finish: natural.

E. Concrete footing. See section 2.05. 6 in. dia. x 2 in. (above grade).

F. Vinyl letters and art. Color: WH
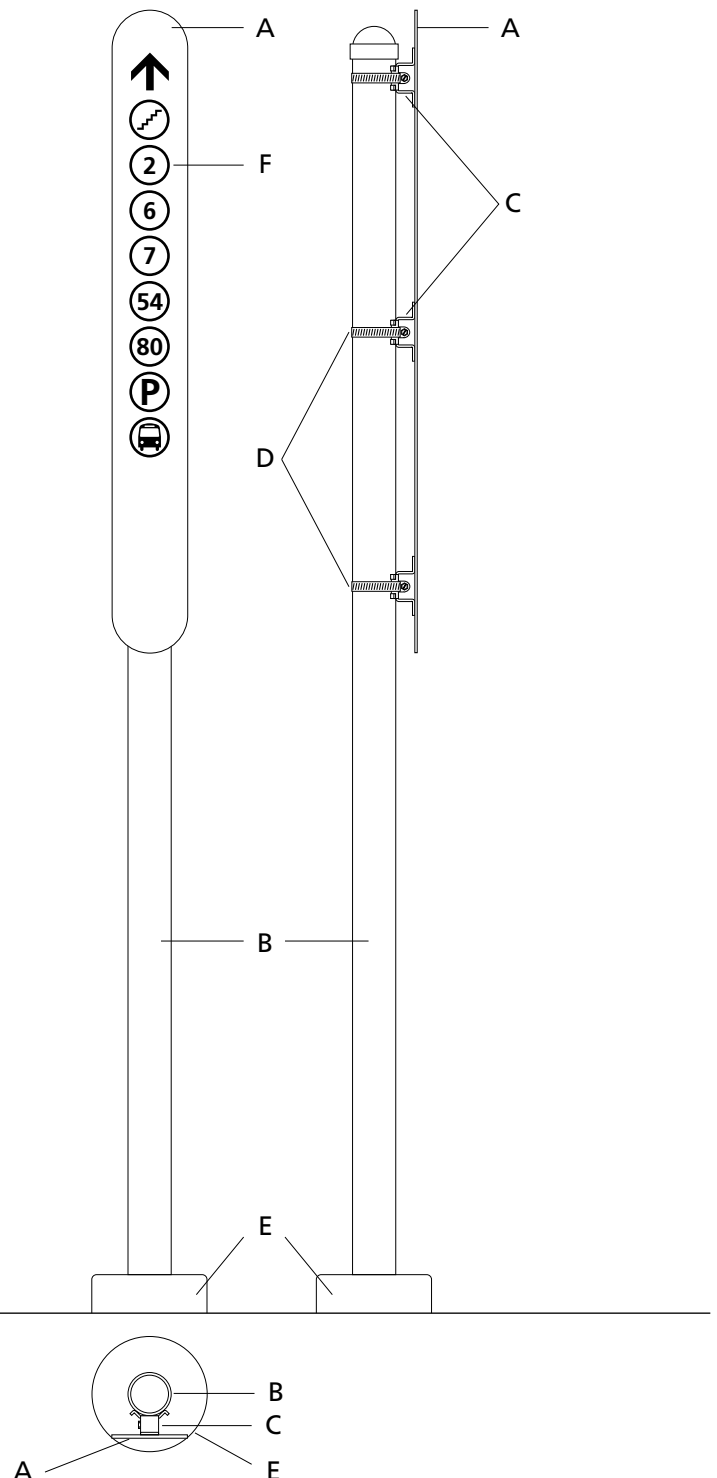
Module XK
Graphic Specifications

Scale 1:8

Center
on
50 100
0 25 75
0

50
60   Arrow height 50

110
120   22.5 cap height,
            vertically centered
170
180

            Type item-to-item
            baseline 60mm

            Circle 50mm O.D.3.3mm
            stroke; center-to-center
            vertical = 60mm

            Numerals **Bold**

850

DT.00000.XK
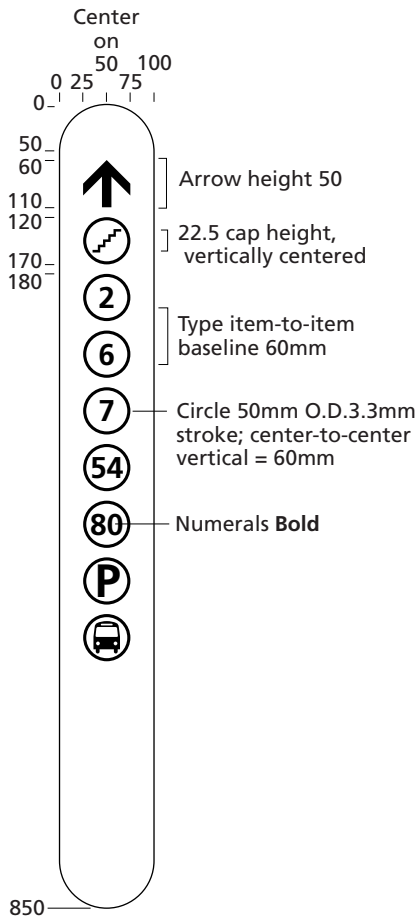
Directional Modules

Module XN
Directional Primary Vehicular
DPV.00000.XN

The XN Module is a 2-sided pedestal-style unit, with messages scaled for readability from moving vehicles. It displays directional information in the form of arrows, pictographs, building numbers, and street names. Refer to the Sign Message Inventory list for specific messages. In the Sign Message Inventory list, the front- and rear-facing message panels are referred to as Message Panels A and B, respectively. Occasionally, due to sign location, the B panel may be left blank.

Module XN
Construction

Scale 1:10

A. Outer shell. 0.080" aluminum box structure. Items B through D are permanent parts of this shell.

B. 50mm dia. aluminum tube trim detail. Brushed aluminum finish with clearcoat. Plated steel endcaps. Upper pair of endcaps is removable; conceals mounting screws. See detail drawings, section 2.06.
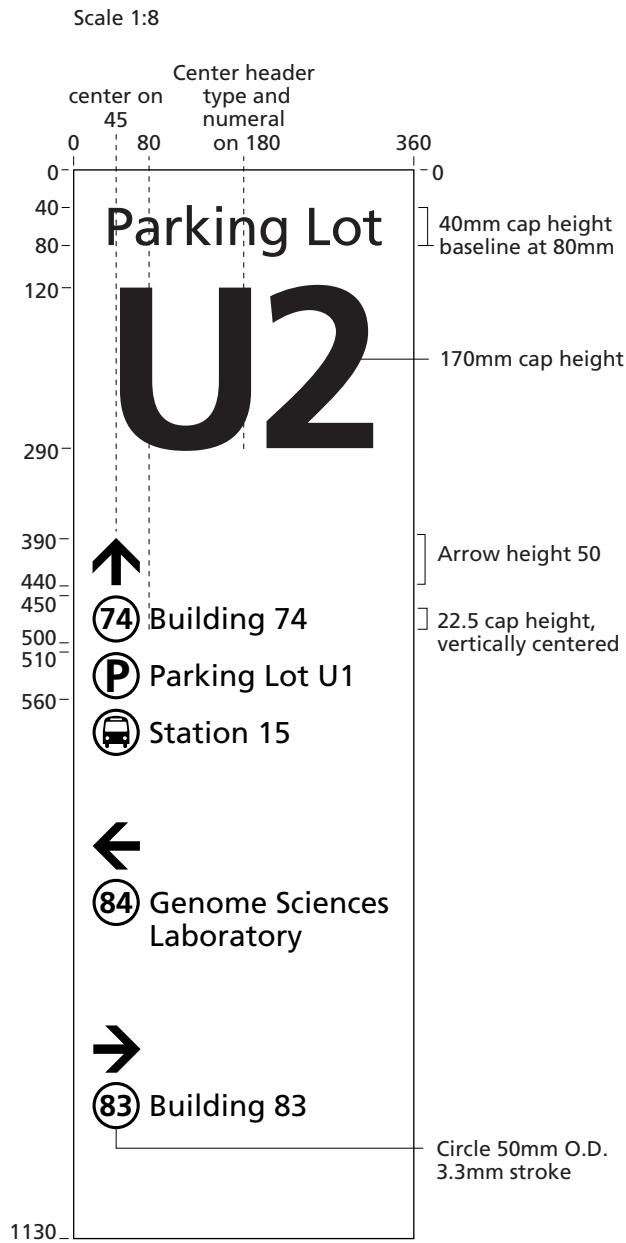
C. Message section. 2-sided with finished returns. Color: P2. Semigloss, smooth finish. 750 x 1010 x 50mm (not including tube details).

D. Pedestal section. Note beveled top @ 45° angle. Color: P1. Semigloss, light texture. 750 x 360 (to centerline of tube) x 150mm.

E. Reveal block. 0.75" aluminum. Finish: natural. See footing detail drawings, section 2.05.

F. Main support base. 0.5" aluminum. Finish: natural. See footing detail drawings, section 2.05.

G. Concrete footing. To be installed by Lab crew. See footing detail drawings, section 2.05.

H. Vinyl letters and art. Color: WH

← Lawrence Rd. E.

(6) (50) (54) (66)

(72) (88) (90)

Exit

→ Calvin Road

(74) (83) (84) (85)
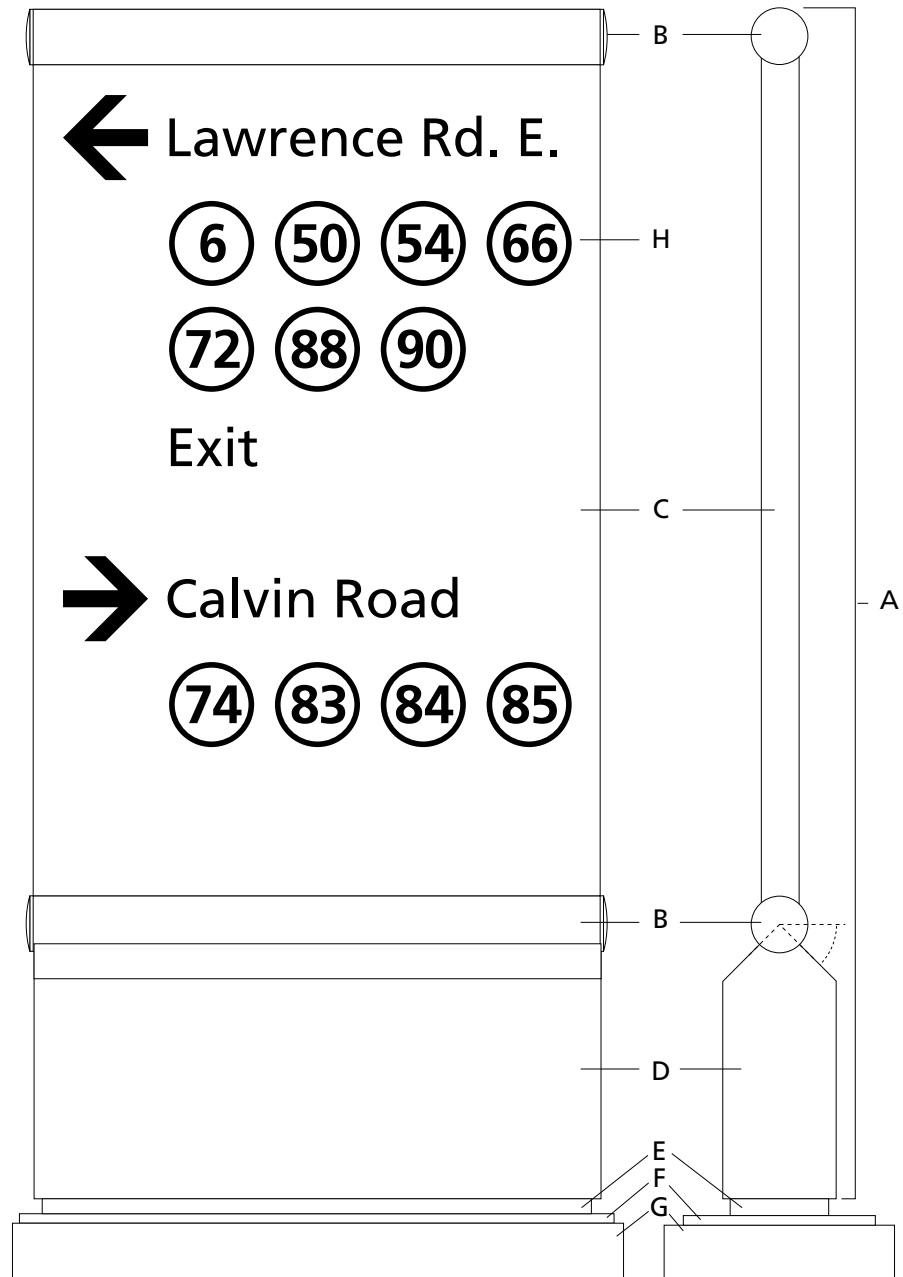
DPV.70002.XN.a

Module XN
Graphic Specifications

Scale 1:8

Arrows center on 96.25

140mm center-to-center

0 40 152.5 180

0

40

← Lawrence Rd. E.

Arrow height 112.5

120

152.5

180

(6) (50) (54) (66)

50mm cap height, vertically centered

292.5

320

(72) (88) (90)

140mm baseline-to-baseline

Exit

130mm baseline-to-baseline

200mm baseline-to-baseline

→ Calvin Road

Numerals **Bold**

(74) (83) (84) (85)

Circle 112.5mm O.D. Stroke 7.425mm
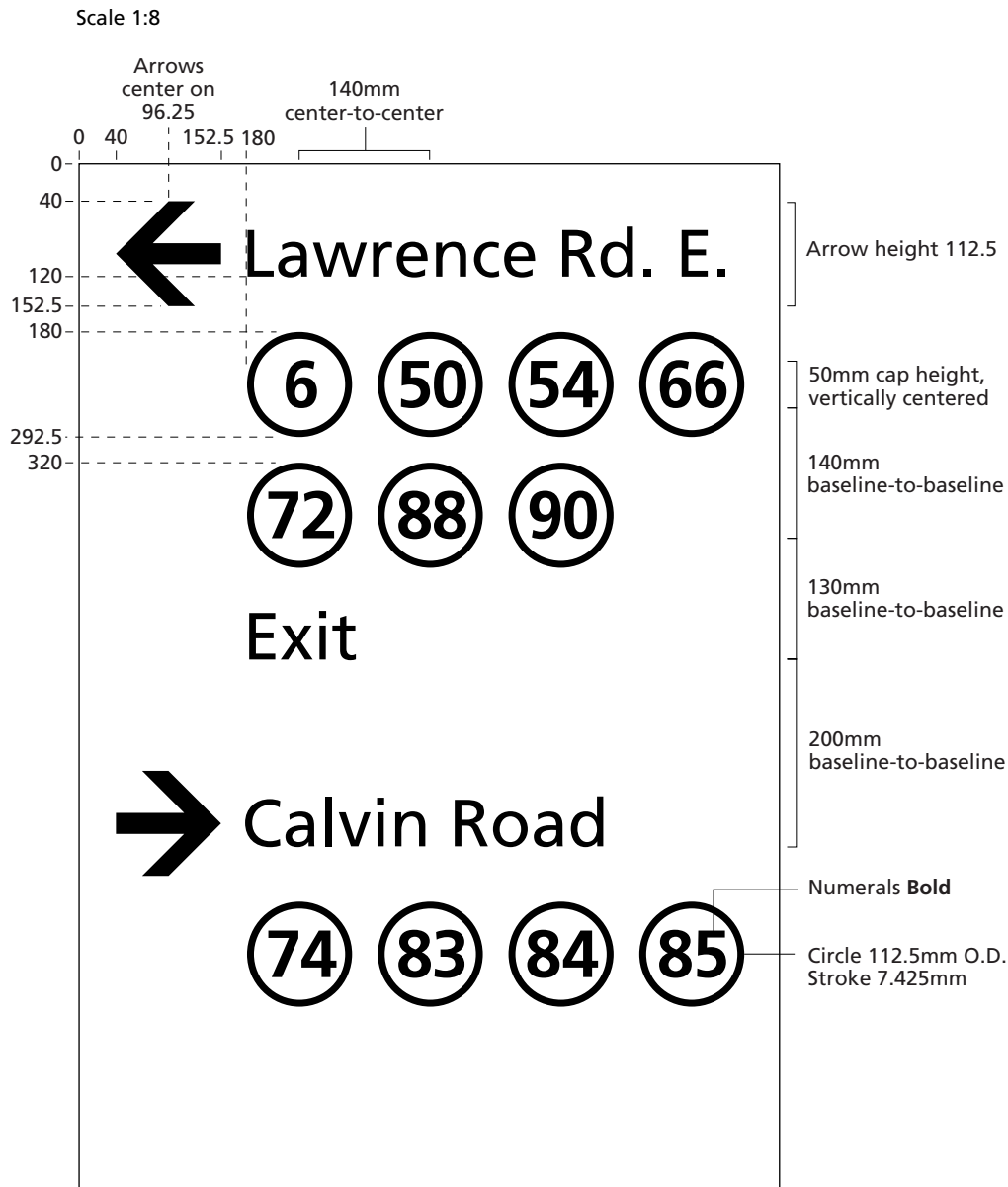
DPV.00000.XN

Module XP
Identification Primary Parking
IPK.00000.XP

The XP Module is a 2-sided pedestal-style unit based on the XH module. Its primary function is to identify parking areas; for which purpose it displays a large parking lot identification letter at a height calculated to be visible over parked vehicles. It is used in situations where it can conveniently double as a pedestrian directional module. It therefore also displays directional information in the form of arrows, pictographs, building numbers, and building and department names, on one or both sides. This information is formatted in precisely the same manner as on the XH module. Refer to the Sign Message Inventory list for specific messages. The design also allows for one side to display a site map and directory list oriented to the sign location; artwork for these will be provided when specified.

Parking Lot

F

↑
(74) Building 74
(P) Parking Lot U1
(🚌) Station 15

←
(84) Genome Sciences
Laboratory

→
(83) Building 83
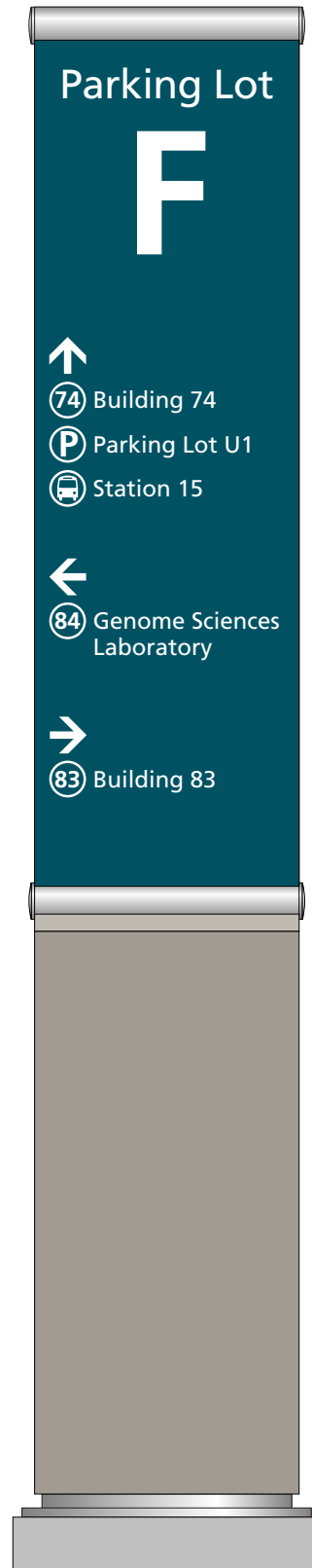
Module XP
Construction

Construction
Scale 1:10

This module is physically identical to module XH, except that the message section is increased in vertical dimension. The internal structure is modified accordingly.

A. Outer shell. 0.080" aluminum box structure. Items B through D are permanent parts of this shell.

B. 50mm dia. aluminum tube trim detail. Brushed aluminum finish with clearcoat. Plated steel endcaps. Upper pair of endcaps is removable; conceals mounting screws. See detail drawings, section 2.06.

C. Message section. 2-sided with finished returns. Color: P2. Semigloss, smooth finish. 360 x 1240 (from top tube centerline to bottom tube centerline) x 32mm.

D. Pedestal section. Note beveled top @ 45° angle. Color: P1. Semigloss, light texture. 360 x 800 (to centerline of tube) x 80mm.

E. Reveal block. 0.75" aluminum. See footing detail drawings, section 2.05.

F. Main support base. 0.5" aluminum. See footing detail drawings, section 2.05.

G. Concrete footing. To be installed by Lab crew. See footing detail drawings, section 2.05.

H. Vinyl letters and art. Color: WH

Parking Lot
U2

← 83 Building 83

→ 84 Genome Sciences Laboratory
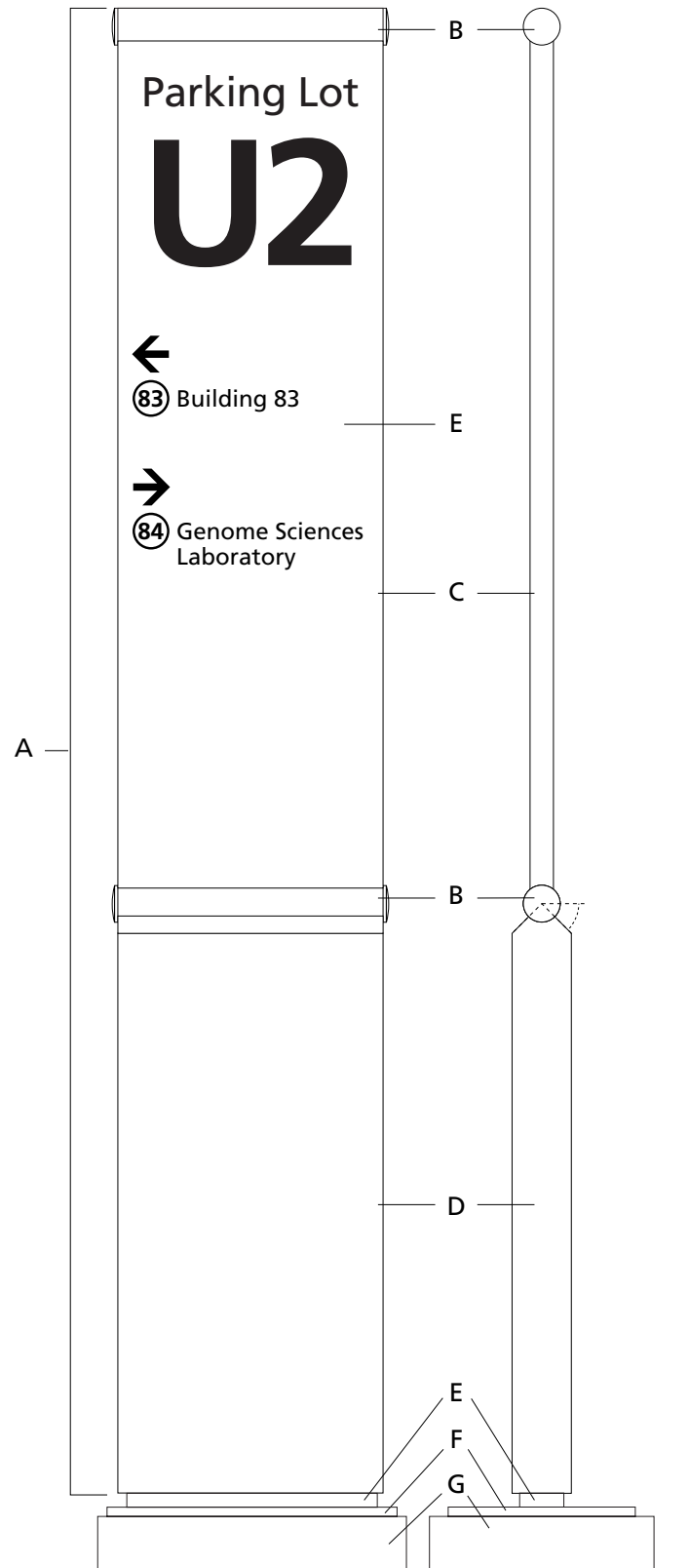
IPK.00000.XP

Module XP
Graphic Specifications

Scale 1:8

center on 45

Center header type and numeral on 180

0   80   180   360

Parking Lot

U2

0

40
80

120

290

390
440
450

500
510

560

1130

40mm cap height
baseline at 80mm

170mm cap height

↑ Arrow height 50

(74) Building 74 — 22.5 cap height, vertically centered

(P) Parking Lot U1

(🚌) Station 15

←

(84) Genome Sciences Laboratory

→

(83) Building 83

Circle 50mm O.D.
3.3mm stroke

IPK.00000.XP

Module XQ
Identification Secondary Parking
ISK.00000.XQ

The XQ Module is a post-mounted double-sided panel. It is the preferred unit for identifying parking areas, used in situations where the directional message capacity of the XP Module is unnecessary.

In a few locations where pole placement is impractical, a wall-mounted variant of this module is used. See section 2.06 for the details of the wall-mounting bracket.
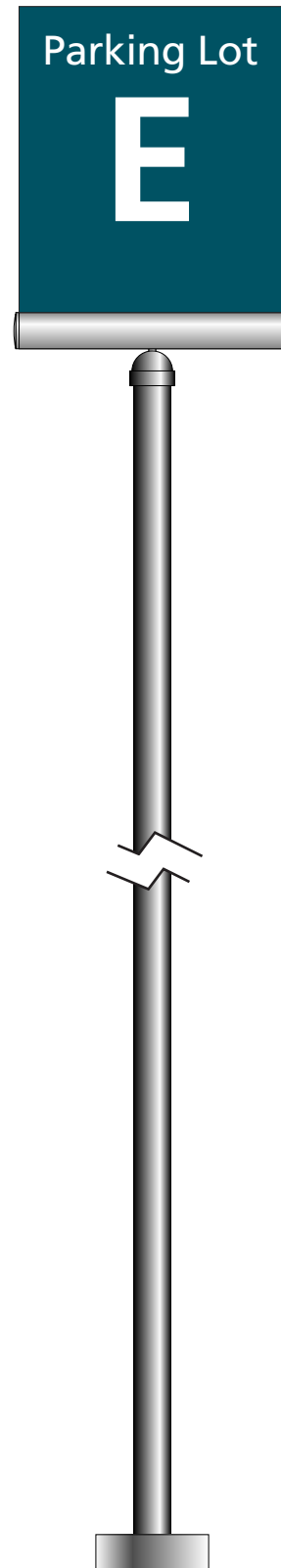
Module XQ
Construction

Construction

Scale 1:10

A. Message panel. 2-sided aluminum panel. Color: P2. Semigloss, smooth finish. 360 x 420mm x 1/16 in.

B. 50mm dia. aluminum tube trim detail. Brushed aluminum finish with clearcoat. Plated steel endcaps.

C. Steel post cap. Attached to aluminum tube by central bolt. Should be secured sufficiently tightly to prevent free rotation of message panel. Finish: natural.

D. 2 in. i.d. steel post. Lab installed. See section 2.05.

E. Concrete footing. See section 2.05. 6 in. dia. x 2 in. (above grade).

F. Vinyl letters and art. Color: WH

Parking Lot

E
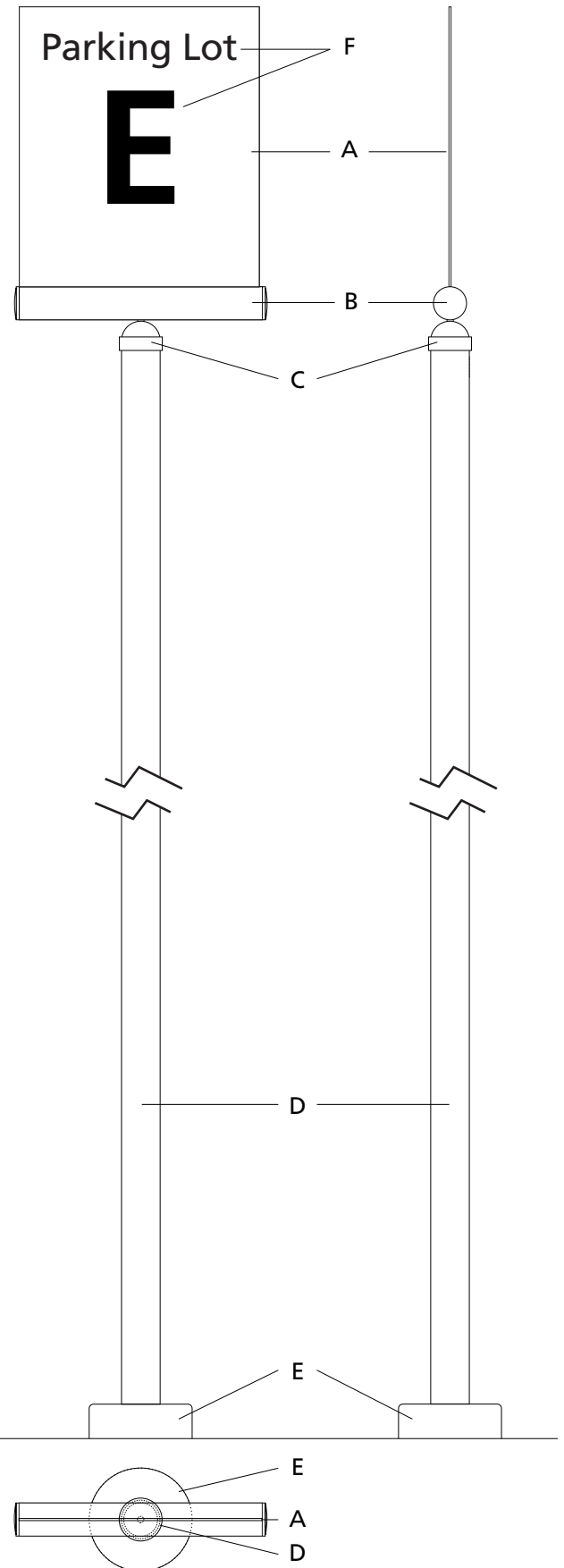
Module XQ
Graphic Specifications

Scale 1:8

center
on
180

0   360

0   0

Parking Lot — 40mm cap height, baseline 80mm from top edge

80

120

E — 170mm cap height

290

This text area for future use

420
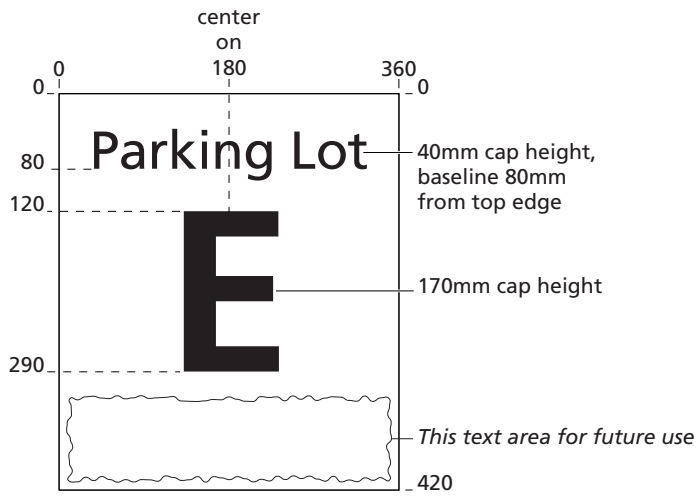
ISK.00000.XQ

Module XR
Identification Tertiary Road
ITR.00000.XR

The XR Module is a flag-style unit that displays street names and is located at intersections. Each flag panel is two-sided. More than one flag unit can be mounted on a single post, as required.

McMillan Road
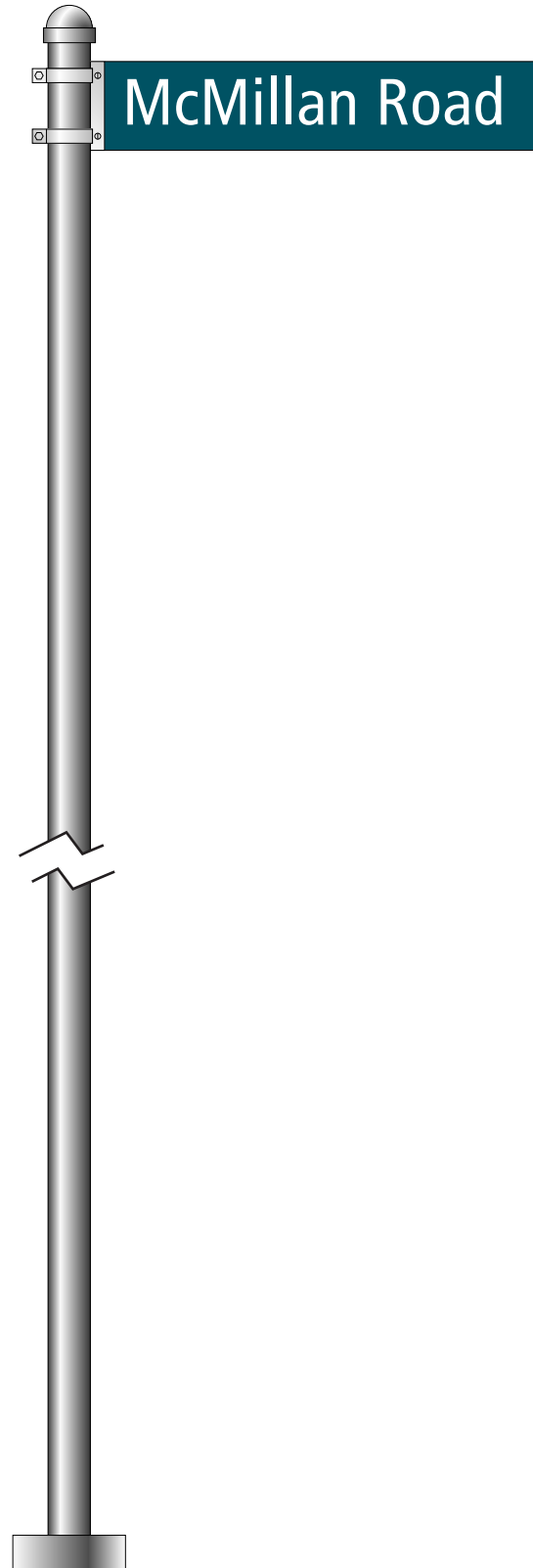
Module XR
Construction

Construction

Scale 1:10

A. Message panel. 2-sided aluminum panel. Color: P2. Semigloss, smooth finish. 600 x 120mm x 1/16 in.

B. Steel post cap. Finish: natural. Lab installed.

C. Aluminum clamp bracket. Finish: natural. Secured with nut and bolt pairs. Attached to message panel with flat head sex bolts.

D. 2 in. i.d. steel post. Lab installed. See section 2.05.

E. Concrete footing. See section 2.05. 6 in. dia. x 2 in. (above grade).

F. Vinyl letters and art. Color: WH Reflective.

Alvarez Road
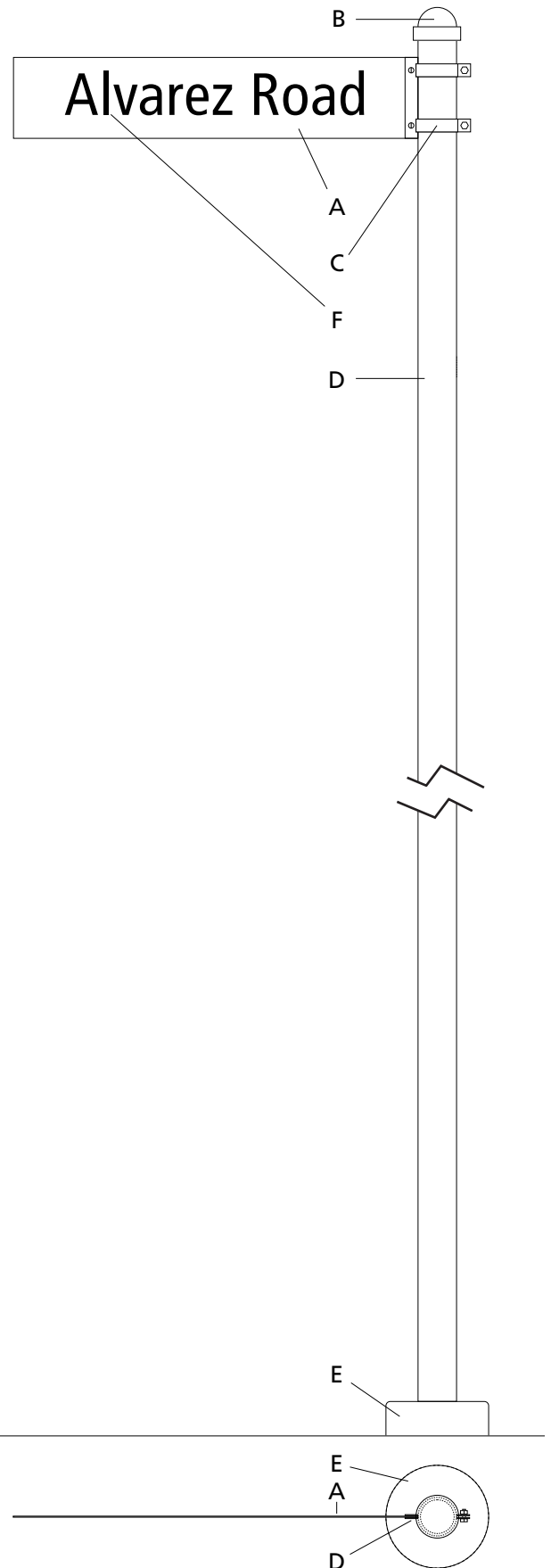
Module XR
Graphic Specifications

Scale 1:8

Center
on 300

0 20   580 600
0
25
85
120

Cyclotron Road

Background color: P2

Type color: Reflective white vinyl

Module XL
Orientation Primary
OP.00000.XL
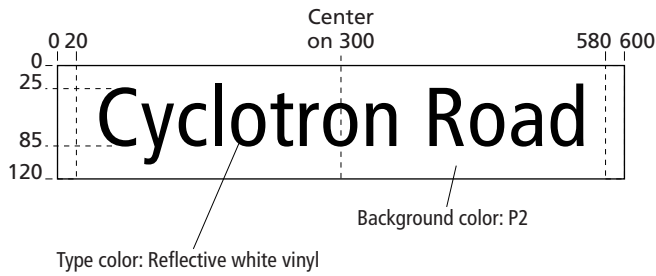
The XL Module is a multipurpose pedestal-style unit, constructed in a manner similar to the XH module. Its front and back message panels (A and B) display orientation information in the form of site maps and directory listings. The narrow end panels (C and D) display directional information in the same format as the XK module. Refer to the Sign Message Inventory list for specific messages. Artwork for the map and directory information will be provided. Occasionally, due to sign location, the B, C, or D panel may be left blank.
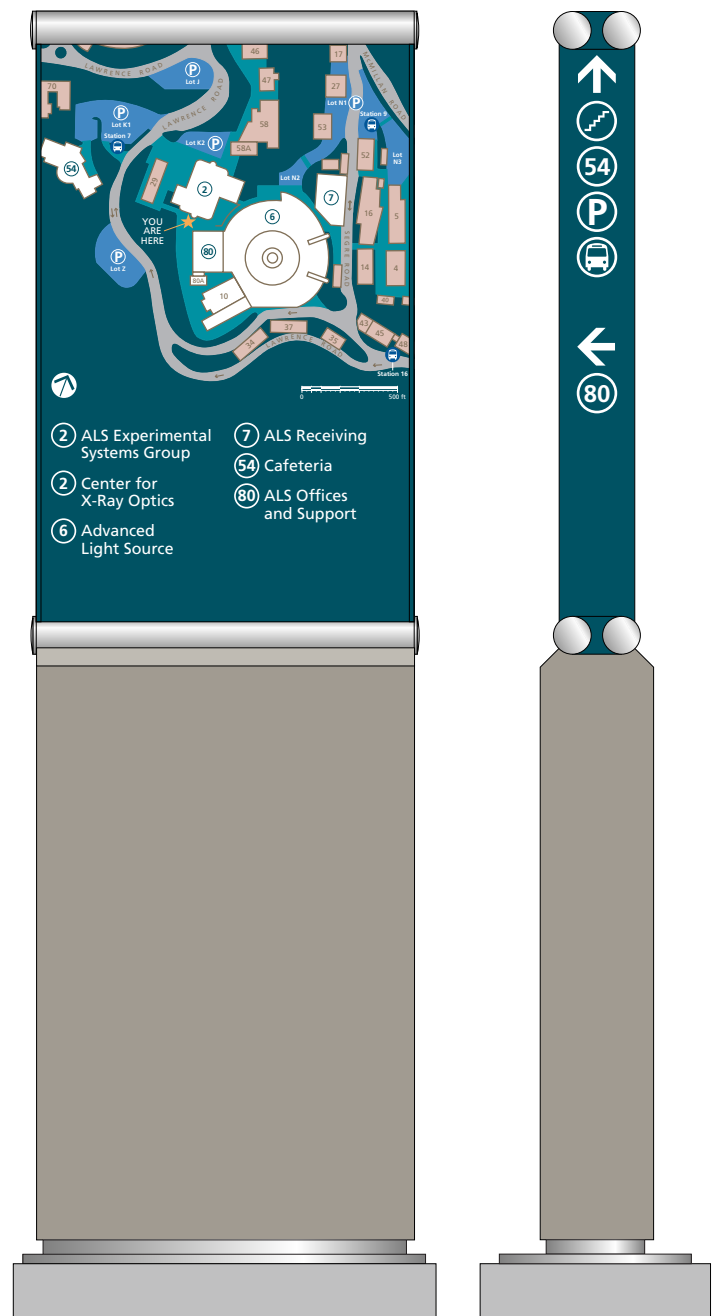
Module XL
Construction

Construction

Scale 1:10

A. Outer shell. 0.080" aluminum box structure. Items B through D are permanent parts of this shell.

B. 50mm dia. aluminum tube trim detail. Brushed aluminum finish with clearcoat. Plated steel endcaps. Upper pair of endcaps is removable; conceals mounting screws. See detail drawings, section 2.06.

C. Message section. 4-sided. Color: P2. Semigloss, smooth finish. 360 x 800 (from top tube centerline to bottom tube centerline) x 100mm. Removable panels on the two wide faces are 360 x 765 x 1/16" aluminum; color: P2.

D. Edge trim. 1/4" angle x 765 mm. Attached with double-sided tape to end panels only. Color: P2.

E. Pedestal section. Note beveled top @ 45° angle. Color: P1. Semigloss, light texture. 360 x 800 (to centerline of tube) x 150mm.

F. Reveal block. 0.75" aluminum. See footing detail drawings, section 2.05.

G. Main support base. 0.5" aluminum. See footing detail drawings, section 2.05.

H. Concrete footer. To be installed by Lab crew. See footing detail drawings, section 2.05.

I. Vinyl letters and art. Color: WH.

J. Color map art. Screen print five–eight colors. Exact color specification determined by content.
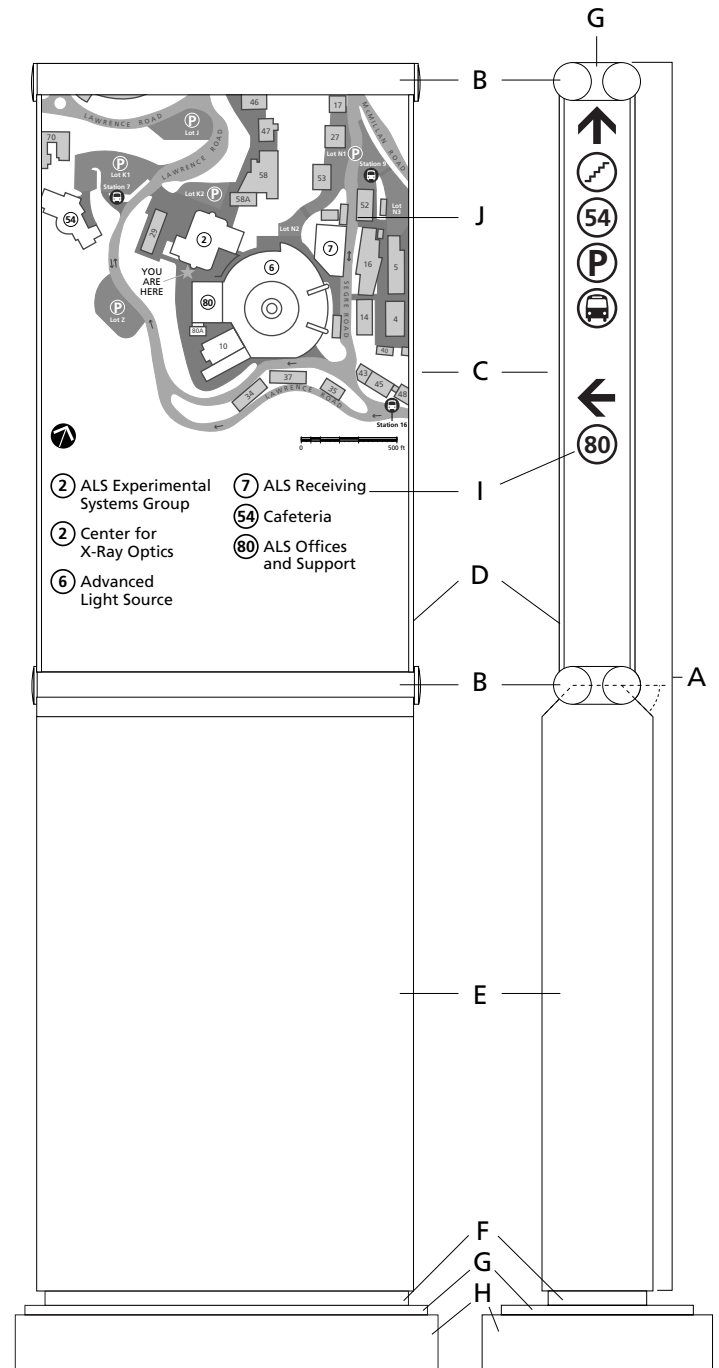
OP.40012.XL.a   OP.40012.XL.d

Module XL
Graphic Specifications

Scale 1:8

Map Art

Circle dia. 35mm

Numerals **Bold**

15mm cap height,
vertically centered

Type item-to-item
baseline 40mm

Type line-to-line
baseline 25mm

2 ALS Experimental
Systems Group

2 Center for
X-Ray Optics

6 Advanced
Light Source

7 ALS Receiving

54 Cafeteria

80 ALS Offices
and Support

Center
on
50 100
0 25 75

Arrow height 50

22.5 cap height,
vertically centered

Circle 50mm O.D. 3.3mm stroke;
center-to-center vertical = 60mm

Allow 1 blank space above second
arrow and each subsequent arrow

Numerals **Bold**

Color Swatches

Exterior

These color swatches are approximations for identification purposes only, and are not to be used for color matching. See manufacturer's swatch books for authoritative colors.
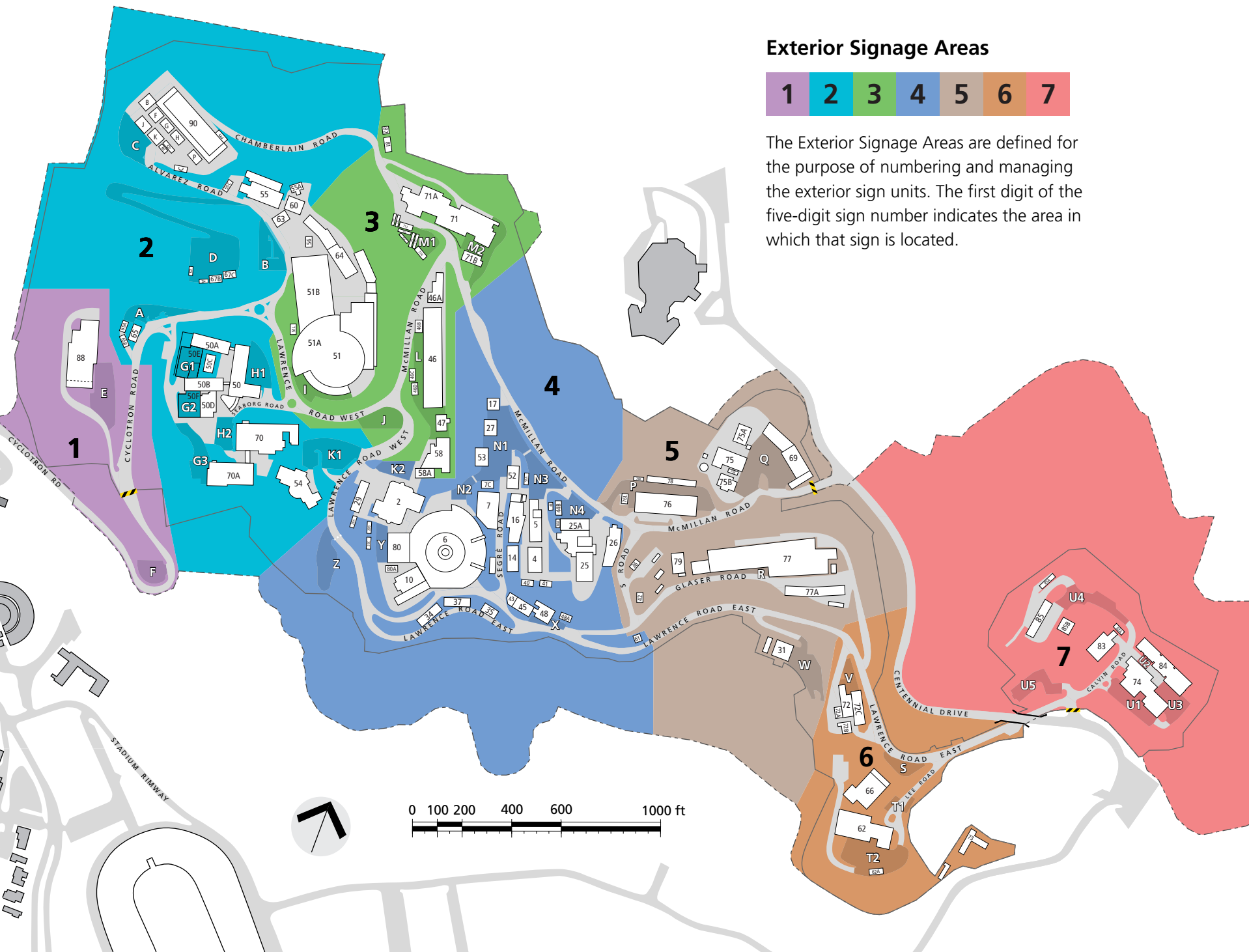
CODE	VENDOR CODE	COLOR NAME
P1	Plochere G197	Light Earthtone Green
P2	Matthews 64A-1A	Cypress Blue
C03	Pantone 653 CV	[Shuttle Bus symbol in orientation maps]
P300	Pantone 300 CV	[Accessibility Pictograph]

Exterior

CODE	VENDOR CODE	COLOR NAME
LB	Matthews 76B-4D	Antioch Blue [used in orientation maps]
L1	Matthews 57C-4D	Airland Blue [used in orientation maps]
L4S	Matthews 11B-1P	Country Way [used in orientation maps]
PCG5	Pantone Cool Gray 5 CV	[used in orientation maps]

Exterior

These color swatches are approximations for identification purposes only, and are not to be used for color matching. See manufacturer's swatch books for authoritative colors.

CODE	VENDOR CODE	COLOR NAME

C2	Pantone Warm Gray 11	[used in orientation maps]

P1375	Pantone 1375 CV	[used in orientation maps]

WH	[none]	White

Exterior Signage Areas

Exterior Signage Areas

1	2	3	4	5	6	7

The Exterior Signage Areas are defined for the purpose of numbering and managing the exterior sign units. The first digit of the five-digit sign number indicates the area in which that sign is located.

0 100 200 400 600 1000 ft

Berkeley Lab

Signage
and Public
Information
Standards
Manual

Volume 3:
Specialty Signage

Version 2.0.1
1.25.00

Studio L'Image

Contents

(continued)

Contents

Volume 3: Specialty Signage & Graphics

Shuttle System Signage & Graphics *(continued)*

Preface

Standards

The signage system is in the process of being installed lab-wide. Materials, finishes, and colors will be required to match existing system components to a high degree of exactitude, subject to the approval of the design team. This document addresses the standards in detail. Any questions regarding colors, finishes, or fabrication details should be directed to the design team.

Art Creation

Vendors will be responsible for setting type to specifications provided. Design team will be responsible for providing artwork for maps, arrows, pictographs, logos and symbols used in the signage. Vendor should inform the design team of any format requirements or preferences.

Changes

The specifications in this document supercede all previous documents.

Design Team

Questions about the specifications in this document may be addressed to the design team:

Studio L'Image
601 19th Street, Suite 200
San Francisco CA 94107
415-643-9309
415-643-9307 fax
www.studiolimage.com

Lab Contact:

Laura J. Chen
Chief Facilities Planner
Facilities Planning Department
Lawrence Berkeley National Laboratory
B90G
Berkeley CA 94720
510-486-6117
ljchen@lbl.gov

Copyright Statement

Building Identification Signage

Building Identification

Scale 1:20

2 2 4 4

51 51 80 80

71A 71A 51L 51L
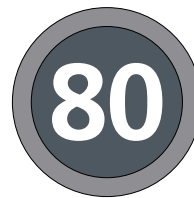
Identification
Primary Large
Module Type XA

Identification
Secondary Large
Module Type XB

Identification
Primary Small
Module Type XC

Identification
Secondary Small
Module Type XD

Building Entrance Identification

Scale 1:10

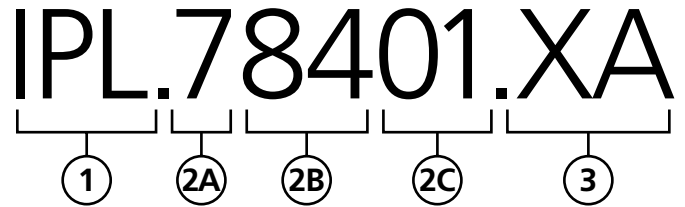
Identification
Primary Entrance
Module Type XE

Identification
Secondary Entrance
Module Type XF

Sign Unit Code

Each building identification sign unit is identified by a three-part code. The Sign Message Inventory list breaks out the code in the first three columns.

IPL.78401.XA

① ②A ②B ②C ③

1. Function Code

Identifies functional type and hierarchy.

Major Categories
I = Identification
Hierarchy
P = Primary
S = Secondary
Detail Codes
L = Large
S = Small

Examples of use:

IPL = Identification Primary Large
IPS = Identification Primary Small
ISL = Identification Secondary Large
ISS = Identification Secondary Small

2. Sign Number

A 5-digit number uniquely identifies each individual sign.

2A. The first digit refers to the Exterior Signage Area (1–7) in which the building is located. See Appendix C for a map of the exterior signage areas.

2B. The next two digits identify the building number.

2C. The last two digits are the sign number.*

3. Module Type

The exterior system module types are designated XA, XB, and so on to distinguish them from the interior signage module letter series. Each module type defines a particular sign dimension and layout. Construction of each module type is described in section 2.05. Specifications common to all modules are covered elsewhere in section 2.00.

*NOTE: Building identification signs are numbered from #[building #]01 for each building. Alphabetic suffixes such as 90<u>A</u> are ignored for the purpose of enumeration.

Sign Module Types

Building Identification Function Codes & Module Types

Code	Description	Module Type
IPL	Identification Primary Large	XA
ISL	Identification Secondary Large	XB
IPS	Identification Primary Small	XC
ISS	Identification Secondary Small	XD
IPE	Identification Primary Entrance	XE
ISE	Identification Secondary Entrance	XF

Color Code Description

Building Identification

Building Identification signs include modules XA, XB, XC, XD, XE, and XF. The common characteristic of these sign units is that they are all attached to buildings. Since buildings at the Lab are painted a variety of colors, it was determined that no single color scheme for these signs would be satisfactory in all applications. For this reason we have specified three different palettes, called Color Groups. Each building included in this project has been assigned a Color Group which is compatible with the existing architectural palette, and which is used for each sign attached to that building. Refer to section 2.07, Location-Specific Information, for the Color Group assignment of each building. The building affiliation of individual signs can be determined by referring to the Sign Number, as explained on page 2.02.01.

Color Code List

CODE	COLOR SPEC	FUNCTION
CG1	Color Group 1	Building Identification Color Group (blue-gray)
CG2	Color Group 2	Building Identification Color Group (earthtone-green)
CG3	Color Group 3	Building Identification Color Group (earthtone-brown)
1A	Plochere G129	Color Group 1 Base Color
1B	Plochere G133	Color Group 1 Accent Color
2A	Plochere G194	Color Group 2 Base Color
2B	Plochere G197	Color Group 2 Accent Color
3A	Plochere G26	Color Group 3 Base Color
3B	Plochere G29	Color Group 3 Accent Color
CG(#)	Color Group (as specified)	See Sign Message Inventory for individual sign color group assignment
(#)A	Base Color (as specified)	See Sign Message Inventory for individual sign color group assignment
(#)B	Accent Color (as specified)	See Sign Message Inventory for individual sign color group assignment
WH	White	Type color

The type family specified for all signs is Frutiger. Frutiger Roman is the standard weight used on many types of signs. Frutiger Bold is used for building numbers on building identification signs. Type size specifications for specific signs are given in the Module Description pages.

Frutiger Roman

abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ
1234567890.,:

Frutiger Bold

abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ
1234567890.,:

Module XA
Identification Primary Large
IPL.00000.XA

Primary building identification units are used on the side of
the building on which is located the primary public
entrance. Module XA is sized to be visible from longer
distances and from moving vehicles. It consists of an Accent
Circle to which is added a Number Circle. The Number
Circle is identical to the number circle which composes the
Identification Secondary Large unit, the XB module.

Module XA
Construction

Scale 1:20
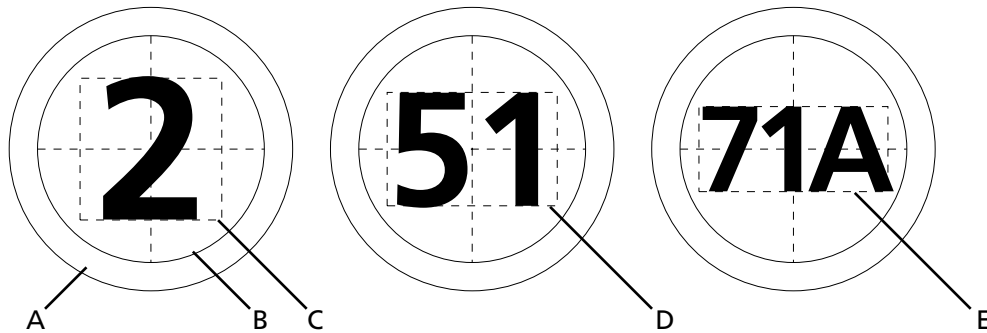
A. Accent Circle. 750mm dia. x 1/8" aluminum disk.
   Color: (#)B.

B. Number Circle. 600mm dia. x 1/8" aluminum disk.
   Color: (#)A.

C. Type Zone, 1-digit. 375 x 375mm. Center vertical &
   horizontal. Type Color: WH

D. Type Zone, 2-digit. 450 x 300mm. Center vertical &
   horizontal. Type Color: WH

E. Type Zone, 3-digit. 500 x 225mm. Center vertical &
   horizontal. Type Color: WH

NOTE: Type Height is calculated for the numeral "1".
Numerals composed of curves such as "8" will slightly
exceed the nominal measurement. Certain number
combinations will need to be visually centered, and the
space between the characters may require adjustment.

Module XB
Identification Secondary Large
ISL.00000.XB

Secondary building identification units are used on those
sides of buildings which do not contain the primary public
entrance. Module XB is sized to be visible from longer
distances and from moving vehicles. It consists of a
Number Circle only. This unit is identical to the Number
Circle portion of the Identification Primary Large unit, the
XA module.

Module XB
Construction

Scale 1:20
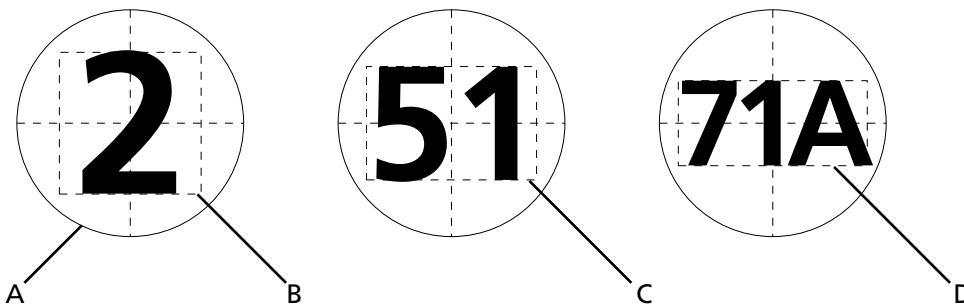
Module XB is identical to Module XA with the Accent Circle deleted.

A. Number Circle. 600mm dia. x 1/8" aluminum disk. Color: (#)A.

B. Type Zone, 1-digit. 375 x 375mm. Center vertical & horizontal. Type Color: WH

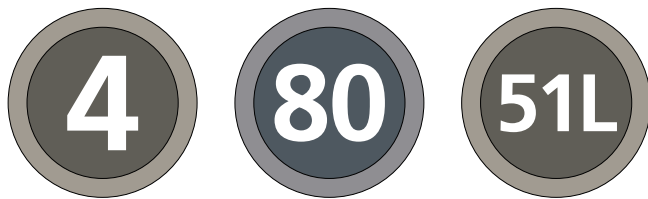C. Type Zone, 2-digit. 450 x 300mm. Center vertical & horizontal. Type Color: WH

D. Type Zone, 3-digit. 500 x 225mm. Center vertical & horizontal. Type Color: WH

NOTE: Type Height is calculated for the numeral "1". Numerals composed of curves such as "8" will slightly exceed the nominal measurement. Certain number combinations will need to be visually centered, and the space between the characters may require adjustment.

Module XC
Identification Primary Small
IPS.00000.XC

Primary building identification units are used on the side of the building on which is located the primary public entrance. Module XC is sized for shorter viewing distances and for smaller buildings. It consists of an Accent Circle to which is added a Number Circle. The Number Circle is identical to the number circle which composes the Identification Secondary Small unit, the XD module.

Module XC
Construction

Scale 1:20
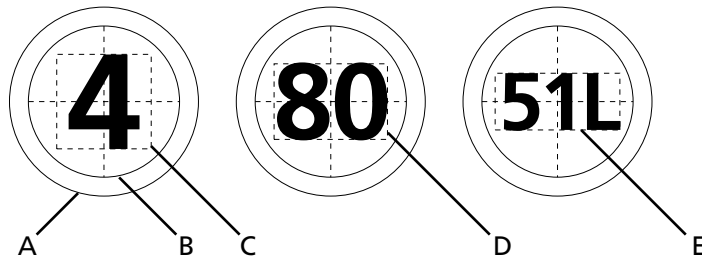
A. Accent Circle. 500mm dia. x 1/8" aluminum disk.
   Color: (#)B.

B. Number Circle. 400mm dia. x 1/8" aluminum disk.
   Color: (#)A.

C. Type Zone, 1-digit. 250 x 250mm. Center vertical &
   horizontal. Type Color: WH

D. Type Zone, 2-digit. 300 x 200mm. Center vertical &
   horizontal. Type Color: WH

E. Type Zone, 3-digit. 330 x 150mm. Center vertical &
   horizontal. Type Color: WH

NOTE: Type Height is calculated for the numeral "1".
Numerals composed of curves such as "8" will slightly
exceed the nominal measurement. Certain number
combinations will need to be visually centered, and the
space between the characters may require adjustment.

Module XD
Identification Secondary Small
ISS.00000.XD

Secondary building identification units are used on those sides of buildings which do not contain the primary public entrance. Module XD is sized for shorter viewing distances and for smaller buildings. It consists of a Number Circle only. This unit is identical to the Number Circle portion of the Identification Primary Small unit, the XC module.

Module XD
Construction

Scale 1:20
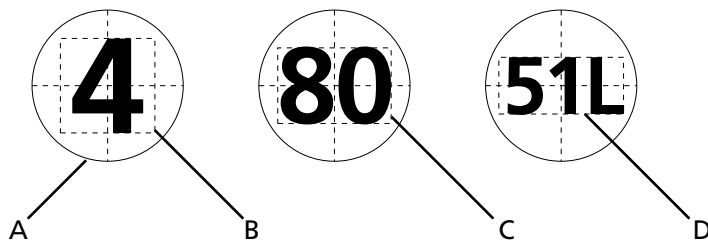
Module XD is identical to Module XC with the Accent Circle deleted.

A. Number Circle. 400mm dia. x 1/8" aluminum disk. Color: (#)A.

B. Type Zone, 1-digit. 250 x 250mm. Center vertical & horizontal. Type Color: WH

C. Type Zone, 2-digit. 300 x 200mm. Center vertical & horizontal. Type Color: WH

D. Type Zone, 3-digit. 330 x 150mm. Center vertical & horizontal. Type Color: WH

NOTE: Type Height is calculated for the numeral "1". Numerals composed of curves such as "8" will slightly exceed the nominal measurement. Certain number combinations will need to be visually centered, and the space between the characters may require adjustment.

Module XE
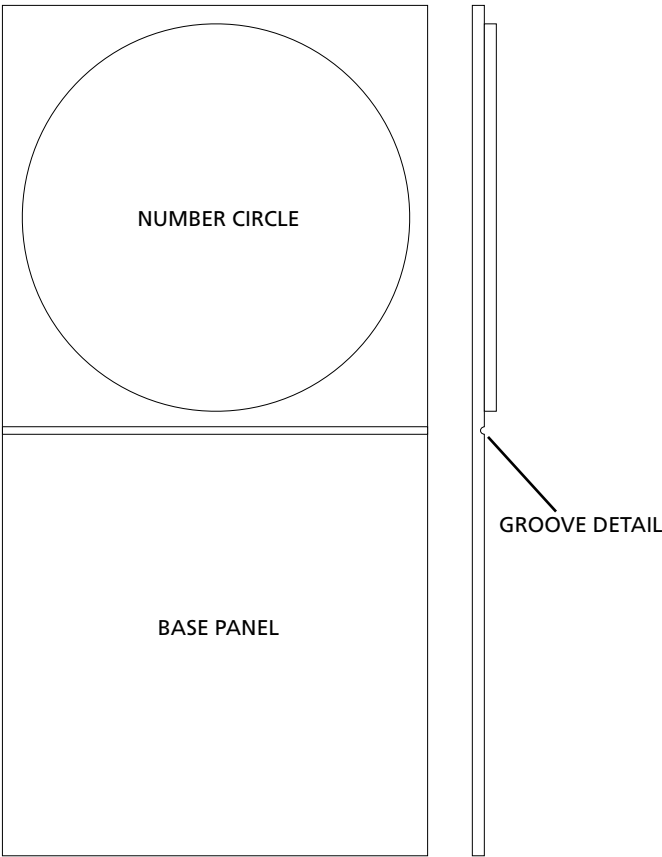## Identification Primary Entrance
IPE.00000.XE

Module XE is used to identify building entrances which are designated the primary public entrance. It consists of a Base Panel to which is added a raised Number Circle.

Module XE
Construction

Scale 1:4

NUMBER CIRCLE

GROOVE DETAIL

BASE PANEL

IPE.00000.XE

Module IPE.XE Dimensions

PANEL	W x H (mm)	MATERIAL	DETAIL	STATUS
Base Panel	225 x 450	1/4" acrylic		Permanent
Number Circle	205 x 205	1/4" acrylic		Permanent
Groove Detail	225 x 4	Router groove	Half-round	Permanent

Note on materials:
Vendor may recommend durable, attractive construction alternatives appropriate for exterior use. Possibilities include: powder-coated steel, polyurethane-painted aluminum, subsurface-printed acrylic and polycarbonate.

Module XE
Graphic Specifications

Scale 1:4

0 10   112.5   215 225

Ring thickness 20mm

1-DIGIT NUMBER
Height: 100mm
Max. width: 100

RING
Color: (#)B

NUMBER
Color: WH

Advanced
Materials
Laboratory

Main Entrance

TYPE
Color: WH

BACKGROUND
Color: (#)A

IPE.40201.XE

0 10   112.5   215 225

2-DIGIT NUMBER
Height: 80mm
Max. width: 125

Alternate

0 10   112.5   215 225

3-DIGIT NUMBE
Height: 60mm
Max. width: 135

Alternate
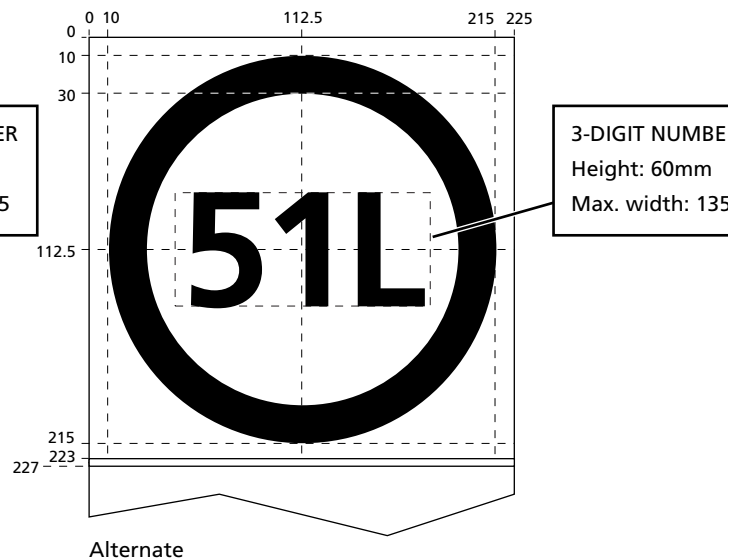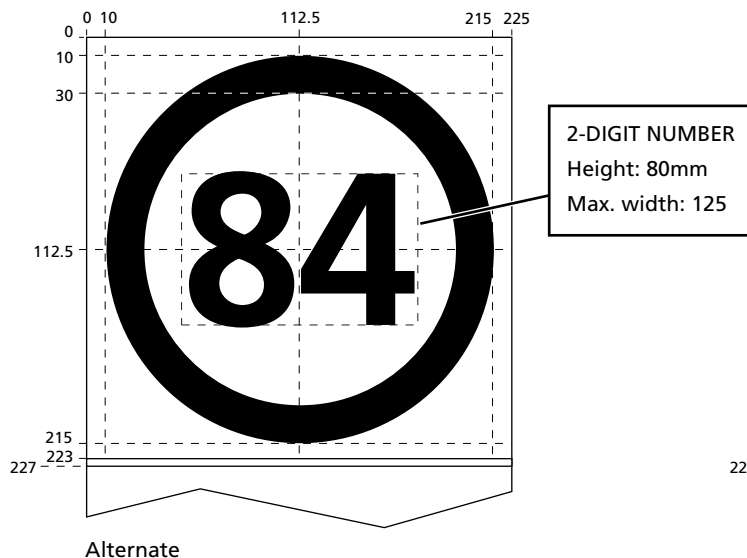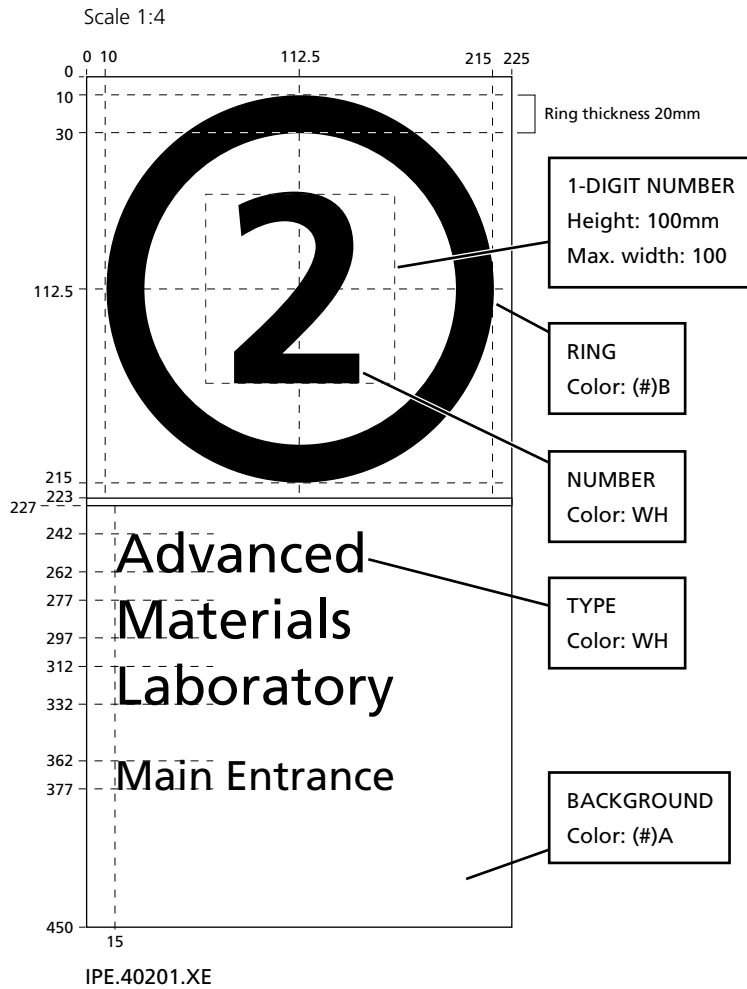
Module XF
Identification Secondary Entrance
ISE.00000.XF

Module XF is used to identify building entrances which are
not the primary public entrance. It consists of a Base Panel
to which is added a raised Number Circle.
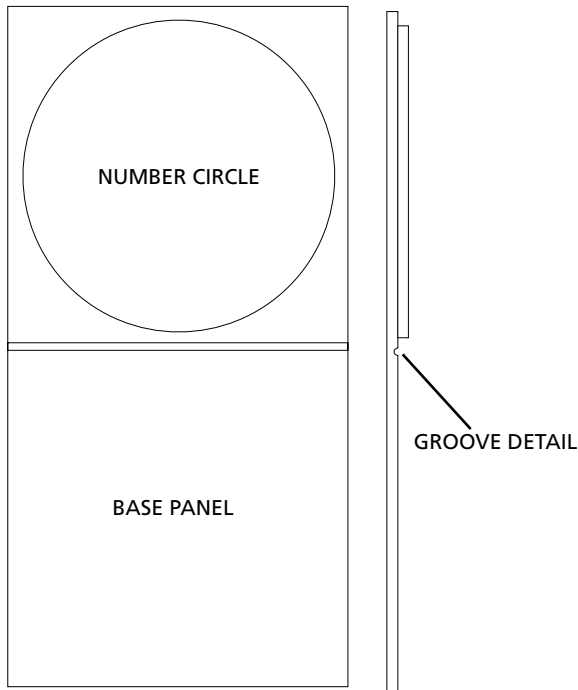
Module XF
Construction

Scale 1:4

NUMBER CIRCLE

GROOVE DETAIL

BASE PANEL

ISE.00000.XF

Module ISE.XF Dimensions

PANEL	W x H (mm)	MATERIAL	DETAIL	STATUS
Base Panel	180 x 360	1/4" acrylic		Permanent
Number Circle	165 x 165	1/4" acrylic		Permanent
Groove Detail	210 x 4	Router groove	Half-round	Permanent

Note on materials:
Vendor may recommend durable, attractive construction alternatives appropriate for exterior use. Possibilities include: powder-coated steel, polyurethane-painted aluminum, subsurface-printed acrylic and polycarbonate.

Module XF
Graphic Specifications

Scale 1:4

ISE.40602.XF

1-DIGIT NUMBER
Height: 100mm
Max. width: 100

NUMBER
Color: WH

TYPE
Color: WH

BACKGROUND
Color: (#)A

Advanced
Light Source

Staff Entrance

2-DIGIT NUMBER
Height: 80mm
Max. width: 125

Alternate

3-DIGIT NUMBER
Height: 60mm
Max. width: 135

Alternate
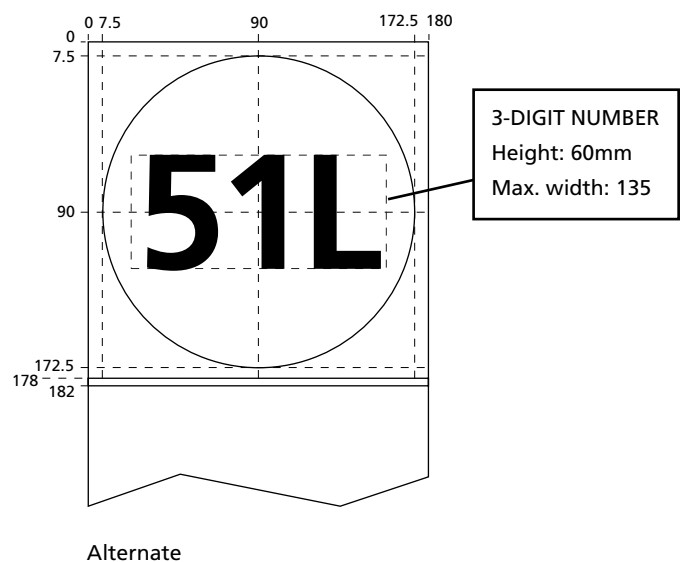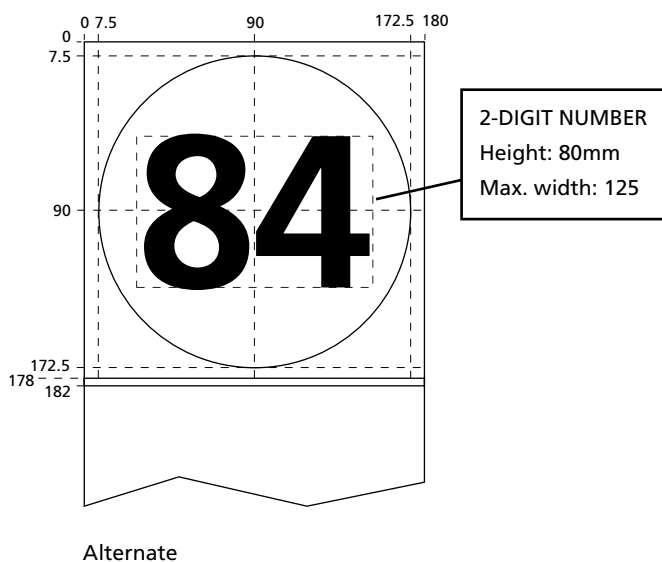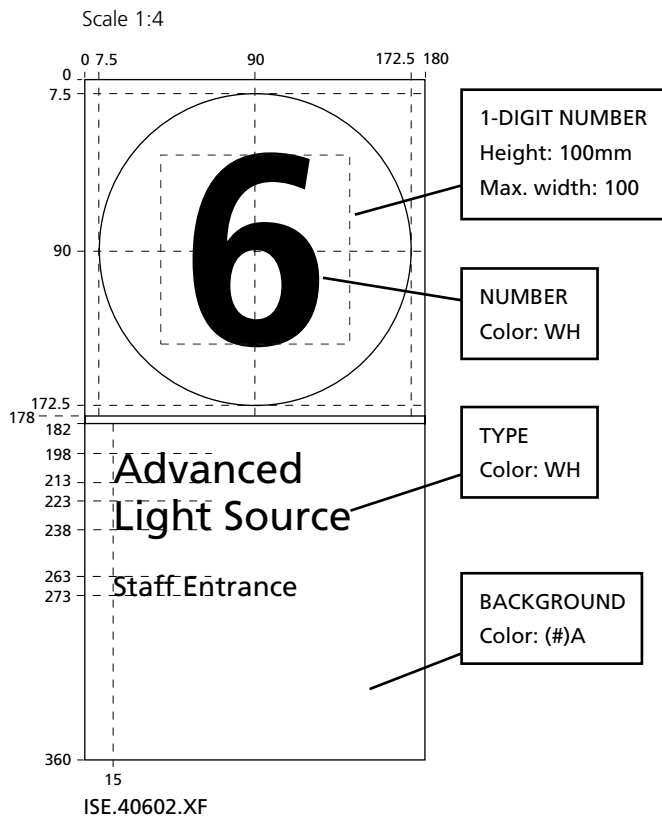
XA Mounting Layout

Only two mounting holes for fasteners should be drilled per sign unit, at the locations marked "A", or at the locations marked "B", depending on the individual circumstances. Location set A is preferred, and should be used in all cases unless contraindicated. For consistent alignment, holes should be pre-marked with a template at the shop rather than marked and drilled at the installation site. All fastener heads should be painted to match the background color; in this case the color of the accent circle.
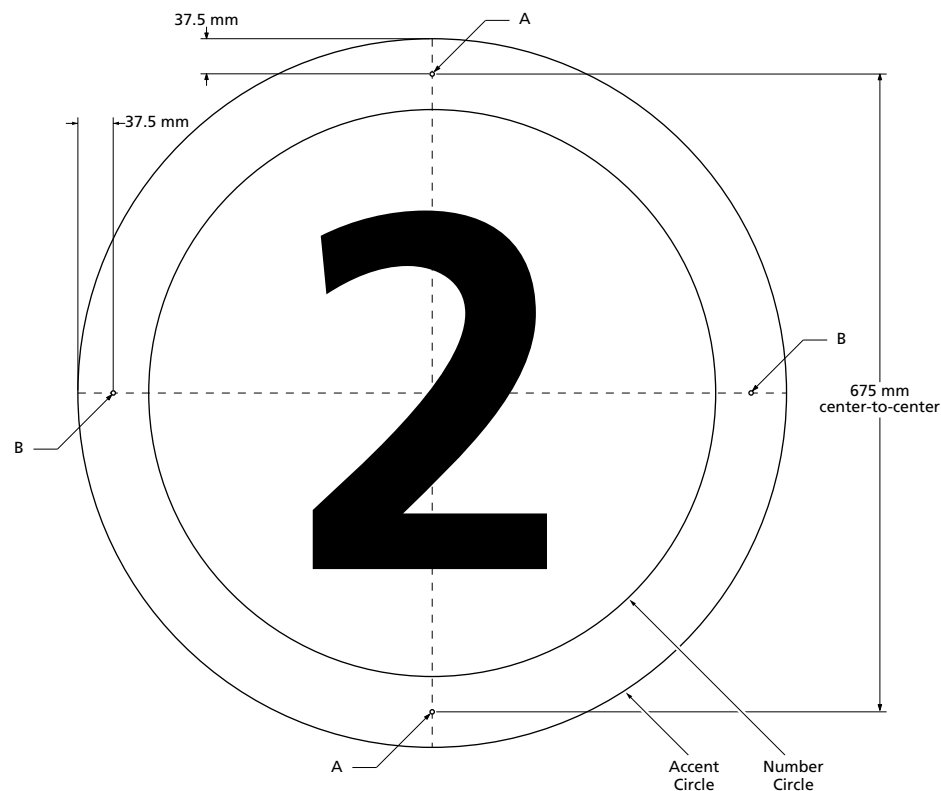
Scale 1:8

XB Mounting Layout

Only two mounting holes for fasteners should be drilled per sign unit, at the locations marked "A", or at the locations marked "B", depending on the individual circumstances. Location set A is preferred, and should be used in all cases unless contraindicated. For consistent alignment, holes should be pre-marked with a template at the shop rather than marked and drilled at the installation site. All fastener heads should be painted to match the background color; in this case the color of the number circle.

Scale 1:8

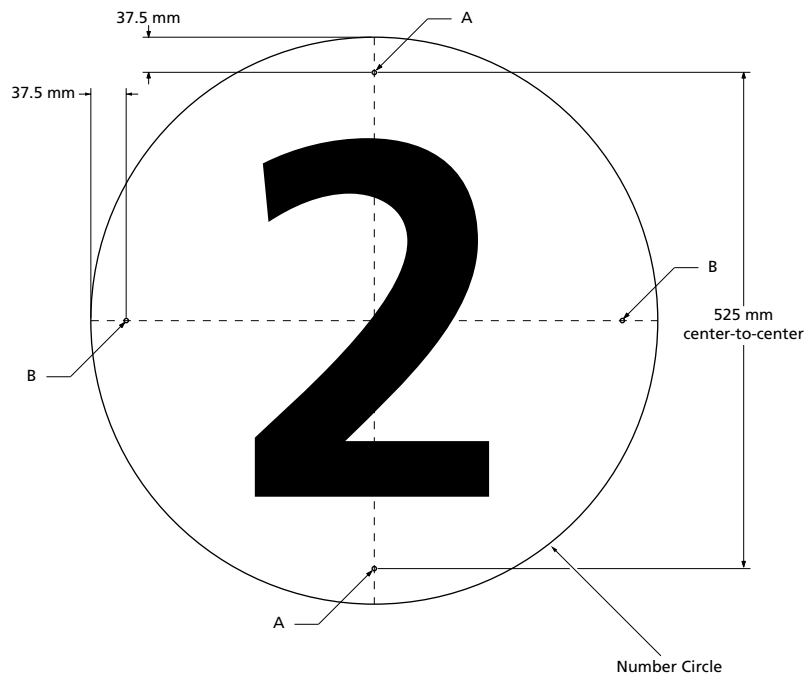37.5 mm

37.5 mm

A

B

B

A

525 mm
center-to-center

Number Circle

XC Mounting Layout

Only two mounting holes for fasteners should be drilled per sign unit, at the locations marked "A", or at the locations marked "B", depending on the individual circumstances. Location set A is preferred, and should be used in all cases unless contraindicated. For consistent alignment, holes should be pre-marked with a template at the shop rather than marked and drilled at the installation site. All fastener heads should be painted to match the background color; in this case the color of the accent circle.

Scale 1:8

XD Mounting Layout

Only two mounting holes for fasteners should be drilled per sign unit, at the locations marked "A", or at the locations marked "B", depending on the individual circumstances. Location set A is preferred, and should be used in all cases unless contraindicated. For consistent alignment, holes should be pre-marked with a template at the shop rather than marked and drilled at the installation site. All fastener heads should be painted to match the background color; in this case the color of the number circle.
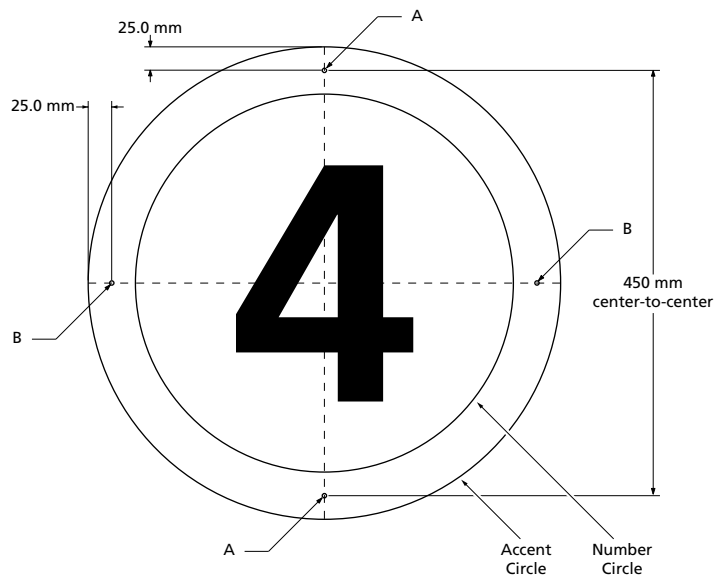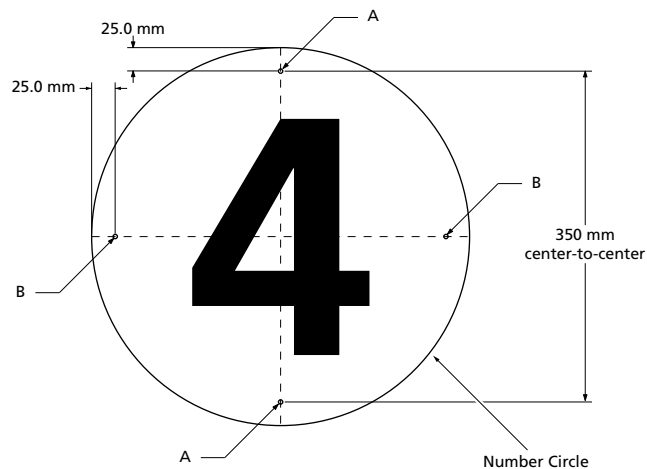
Scale 1:8

Module XE Mounting Layout

Elevation

Scale 1:12

6 inches from door edge
on the side opposite the hinges

2

Advanced
Materials
Laboratory

Main Entrance

Vertically center sign on
60 inches (1524mm)

Minimum 2 inches from
door edge trim, if present
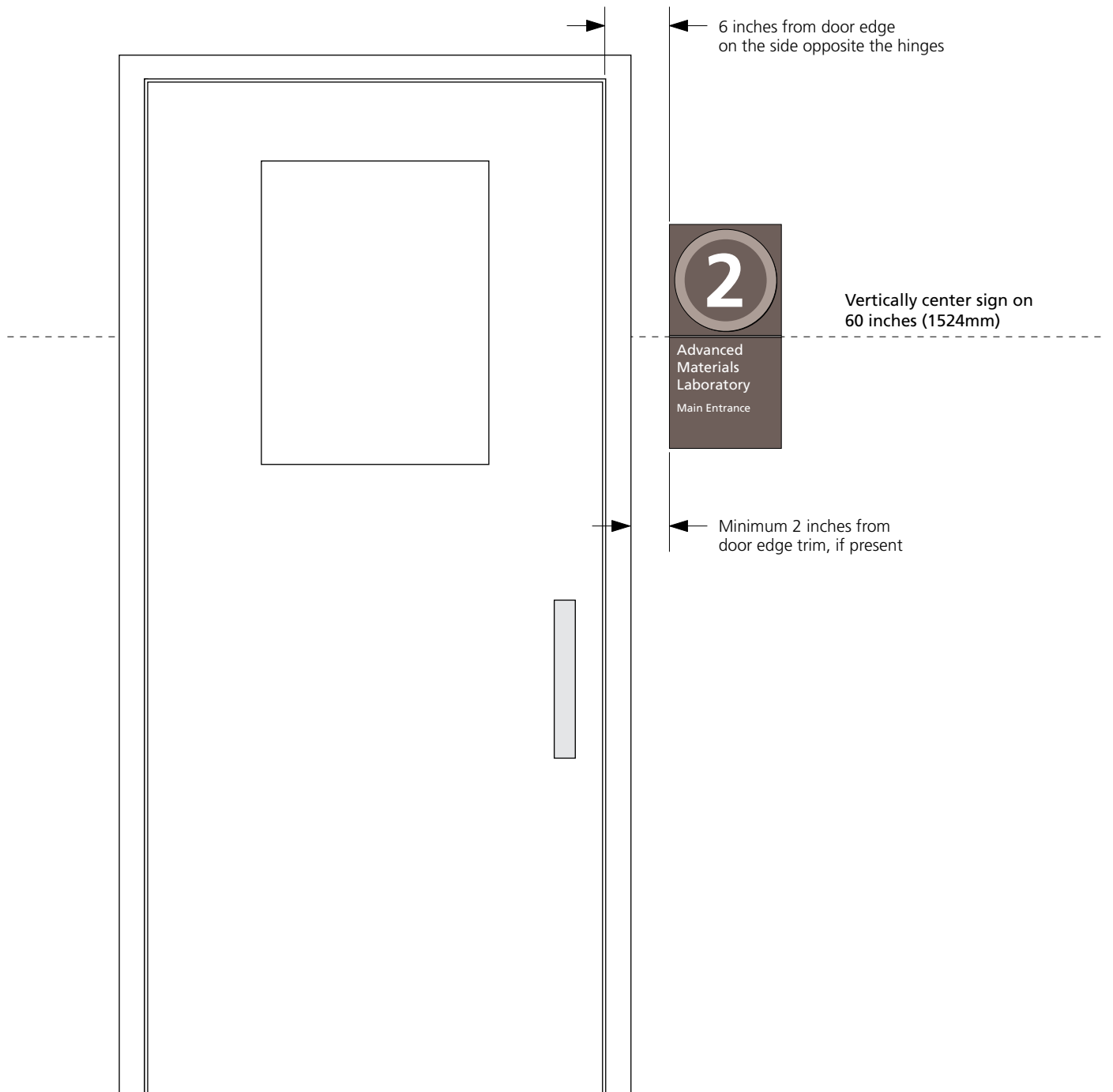
Module XF Mounting Layout

Elevation

Scale 1:12

6 inches from door edge
on the side opposite the hinges

2

Advanced
Materials
Laboratory

**Visitors please use
Main Entrance**

Vertically center sign on
60 inches (1524mm)

Minimum 2 inches from
door edge trim, if present
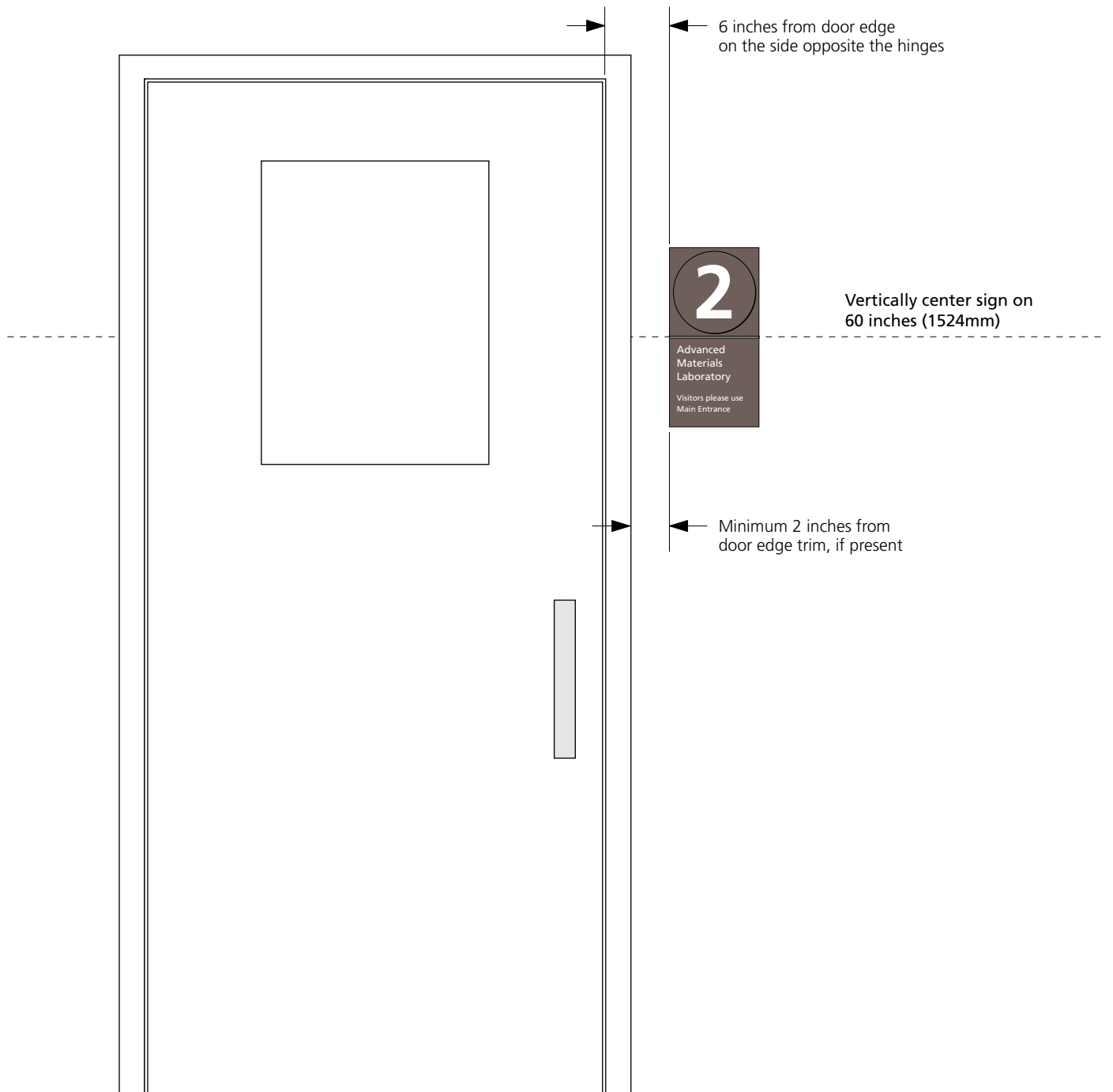
Color Group Assignments
By Building Number

Building Number	Color Group
2	3
4	2
5	2
6	1
7	2
10	1
14	3
16	2
17	2
25	2
26	1
27	3
29	3
29 A	3
29 B	3
29 C	3
31	3
34	2
35	1
37	2
40	2
41	2
43	3
44 A	2
44 B	2
44	3
45	2
46	3
46 A	3
46 B	3
46 C	3
46 D	3
47	3
48	2
50	2

Building Number	Color Group
51	2
51 L	2
52	2
53	3
54	3
55	1
55 A	3
55 C	3
56	2
58	3
60	1
62	3
62 A	3
63	3
64	1
65	1
65 A	3
65 B	3
66	1
67 B	3
67 C	3
69	2
70	2
70 A	2
71	1
71 A	3
71 B	2
71 C	3
71 D	3
71 E	3
71 F	3
71 H	3
71 J	3
71 K	3
71 P	3

Building Number	Color Group
72	1
73	3
74	2
75	2
75 A	2
75 B	3
75 E	3
76	2
76 K	2
76 L	2
77	2
77 A	2
78	2
79	1
80	1
80 A	1
81	3
82	1
83	3
83 A	3
84	1
85	1
85 A	1
85 B	2
88	3
90	3
90 B	3
90 C	3
90 F	3
90 G	3
90 H	3
90 J	3
90 K	3
90 P	3

Off-Site Building Identification

Off-Site Buildings

Background

The requirements of identification signage for off-site buildings are considerably more complex than for buildings on the Berkeley Lab campus. The standard Building Identification signs, include modules XA, XB, XC, and XD, are specifically designed for use on-site. Their primary function is to distinguish the various lab buildings by prominent display of the building number. Out of this context, the size, content, and appearance of these modules is not appropriate.

Off-site building identification signage requires a different approach. For one thing, the building number has little relevance in this context. The building name or title assumes the major role in distinguishing the facility from other off-site locations. Furthermore, the signage carries the additional burden of identifying the facility as part of Berkeley Lab, which would not otherwise be apparent. Finally, the street address of the building becomes an important wayfinding factor, which must not be obscured.

Above all, due to its location in the public eye, off-site building signage must be carefully designed so as to enhance the image of Berkeley Lab. In this respect, it is tightly linked to the physical appearance of the building, which is not a major factor in the on-site system. The signage and the architecture must work together to convey an appropriate image.

Suburban vs Urban Sites

Suburban settings such as office parks may require a different approach than urban locations such as multistory office buildings. In office parks, signage is generally separate from the building structure, and may be subject to pre-existing standards set by the developer or architect. At this time, no examples of this type of signage have been developed.

In urban areas, signage is usually applied to the facade of the building, and may be severely constrained in size,

structure, or materials due to physical or aesthetic requirements of the site. In either case, certain conventions must be followed in order to assure appropriate use of the Berkeley Lab identity and clear communication of the building title or function.

The ensuing discussion is broadly applicable to either location possibility; but, for the most part, assumes an urban site and signage directly applied to the building.

Lab Identity

There are many variations of the official lab identity in current use. The preferred terminology for signage use is "Berkeley Lab", as opposed to the full, formal name "Ernest Orlando Lawrence Berkeley National Laboratory". Because of scale and readability issues, the 'dome and tower' logo should not be used as the primary identity element. Rather, the convention calls for the phrase "Berkeley Lab" to form the first part of the complete building title, as in this hypothetical example: *Berkeley lab Emeryville Storage Facility.* This construction enables a unified typographic treatment for the entire message.

The simplicity of this solution, in turn, enables it to be adapted to any architectural context, using appropriate layout and materials. Such flexibility would not be the case were the convention to dictate a particular size, color, location, or typographic treatment, as might be expected in a commercial franchise operation. Some preferred treatments are discussed in the following paragraphs.

Building Title

As stated above, the full building title includes the phrase "Berkeley Lab". The title should be located on the building so that it reinforces the main entrance, either being centered directly above or immediately adjacent. The entire title should be set in letters of the same size, on a single line, if at all possible. The size of the letters should be appropriate for the projected viewing distance.

(continued)

Off-Site Buildings

The typestyle, finish, materials and construction of the sign should be carefully chosen with consideration of the building architecture. There is no requirement that these details be consistent from building to building; rather, each installation should be optimized to the local context.

Recommendations

Certain materials and finishes are considered more appropriate insofar as enhancing the image of Berkeley Lab. These may include raised metal letters, and carved or cast letters in stone or concrete. Inappropriate materials include neon, illuminated plastic letters, sandblasted redwood, adhesive vinyl lettering, or lettering painted directly on the building.

The recommended typestyles for three-dimensional letters are the 'geometric' sans serif families. Some specific examples are Avenir Medium, Avenir Heavy, Futura Regular, Futura Heavy, and Twentieth Century Medium, depending on the relative weight required. These typefaces are chosen because their simple, bold construction makes them sculpturally appealing while remaining highly readable. Other sans serif typefaces, such as the popular Helvetica, or Frutiger, used in on-site signage, have more complex letterforms which do not translate well into three dimensions. Serif typefaces, such as Times Roman or Garamond, do not convey the proper image of the lab, and are not complementary to modern architecture. Finally, the typeface used in the Berkeley Lab logo, Bank Gothic, is not recommended for much the same reasons that the logo was not recommended for the primary identification element — the extended letterforms are difficult to read and take up a great deal of space relative to their height.

Address (Street Number)

After the building title, the street number should be the most prominent piece of information. Generally placed directly above the main entrance door, often on a transom window, it should be styled to harmonize with the title treatment, and not left as an afterthought. In some installations it may be placed on an awning or other existing structure for better visibility. In a formal environment, the entire address may be spelled out, as in "415 20th Street". When placed on a window, vinyl lettering is an appropriate material; otherwise, similar treatments to the title signage should be considered.

Building Number

Off-site buildings are identified with a three-digit number, usually beginning with "9". Although this is not a primary means of identifying these facilities, this information should be available to users and visitors. The recommended convention is that it be placed next to the entrance, in a size and layout consistent with the on-site standard XE module, and display the building number in a circle, and the building title. The actual details may vary according to the installation; for instance, sometimes the information may be placed directly on a window in adhesive vinyl lettering, instead of on a separate sign unit.

Off-Site Buildings and Facilities

The application of the Berkeley Lab identity to off-site buildings requires a careful examination of multiple factors. One of these is the public name of the facility. The following considerations are put forward as guidelines for the development of building names, with the anticipation that if thoughtfully executed they will assure clear communication, and bring increased visibility and awareness to the laboratory.

It might be asked whether a building name is even necessary. Conceivably, the off-site facility could merely display some variant of the Berkeley Lab identity, and not a specific building name. Aside from the obvious utility of having a unique, shared means of referring to the facility among lab personnel, it is also important to present a clear image to the public. An inappropriate over-emphasis on the Berkeley Lab identity in a particularly public location could even result in confusion with the main laboratory campus, the location of which is not well understood by the public at large.

Lab Identity
Given that off-site facilities should be clearly identified as belonging to Berkeley Lab, the following paragraph discusses some of the possibilities for implementing this requirement, in light of the previous conclusions.

There are several versions of the lab identity, which theoretically could be applied singly or in combination. The 'dome and tower' logo includes the phrase "Berkeley Lab", albeit in a format which renders the relative size of the message unfortunately diminutive for architectural signage purposes. A variation combines this logo with the full formal name "Ernest Orlando Lawrence Berkeley National Laboratory" — to which the same objection applies. Simply spelling out the full name in appropriate-sized lettering seems likely to run up against space constraints in most conceivable layouts. Finally, the 'bar' variant of the logo, with just the words "Berkeley Lab" in a rectangle, turns out to be awkward to combine with a building name in actual practice.

All things considered, the recommendation is that the name of the facility be preceded by the phrase "Berkeley Lab" as part of its official title, as in this example: *Berkeley Lab Oakland Facility*. The building identification signage would consist of this entire title.

Building Name
The part of the official title that does not consist of the phrase "Berkeley Lab" is here referred to as the building name. The purpose of these guidelines is to simplify the process of coining names for new off-site facilities. Although at first glance this process may not seem all that difficult, in practice it is full of potential pitfalls. An ideal name should be short, simple, and easy to remember. It should be readily identifiable with the facility it purports to describe, and it should be specific enough not to equally well describe some other facility. The name should be unique, and not easily confused with some similar name. Finally, the name should make sense to a casual visitor or passer-by, in the context of the location; for this reason, it should not actually include the words "off-site".

It may not be possible to develop a rigid formula that will automatically create an appropriate name in every instance. Nevertheless, a survey of potential naming components will serve to demonstrate the strengths and weaknesses of various approaches.

For the purposes of this discussion, the entire building title is represented by this diagram:

"Berkeley Lab" (lab identity) + [building name]

The building name itself may be deconstructed in this manner:

[modifier(s)] + [descriptor]

The modifiers may be further categorized as location modifiers or function modifiers. Finally, there may be other, unrelated solutions for certain facilities.

Off-Site Buildings and Facilities

Location Modifiers

A location modifier can give useful information in identifying off-site facilities. The most obvious example of a location modifier would be the city in which the facility is located, as in *Oakland Building* or *Emeryville Facility*. This scheme reveals a weakness, however, when two or more facilities are located in the same community. At this point a function modifier may be added, or a more specific location identified, such as the street (*University Avenue Annex*); or a more generic or relative location modifier used, as in *Downtown Center* or *West Oakland Facility*. It should be noted that the use of the city name for facilities located in Berkeley results in undesirable redundancy: *Berkeley Lab Berkeley Facility*.

Function Modifier

As noted, a function modifier can be used to differentiate separate facilities in the same community, for example *Oakland Computing Facility* and *Oakland Storage Facility*. It could also be used alone, as in the case of city of Berkeley locations (*Berkeley Lab Shipping Facility*). However, some locations might have no specific function, or a combination of different functions. It is even conceivable that two such locations might be in the same community.

For example, another office structure in Berkeley might be leased for a similar purpose to Building 937. In this situation, a rigid naming formula such as:

[city name] + [function] + [descriptor]

would break down. It is recommended that a functional modifier be employed only for specific concepts such as *Computing, Shipping* or *Research,* as opposed to generic terms such as *Administrative* or *Support.*

Descriptor

The descriptor used must be appropriate to the type of facility. It should also create a euphonious combination with the associated modifiers. While the descriptors used may vary, it is possible that certain forms will be preferred to others. In general, it would not be wise to rely upon the descriptor alone to differentiate separate facilities, as in the case of *Berkeley Lab Administrative Facility* and *Berkeley Lab Administrative Center*; this would seem sure to cause confusion. Possible descriptors include *Annex, Building, Center, Facility, Institute, Laboratory, Location, Office* and *Site*.

Other Solutions

It is possible that the street address could become the primary name, as in *500 Shattuck Center*. This formula is frequently used in commercial real estate, and could be appropriate in cases where Berkeley Lab occupies the entire building, and the building itself is well known. Sometimes the building may have a pre-existing name of its own, which is already in widespread use, such as *Promenade Building. Berkeley Tower* is another example.

In the past, an approach has been taken which uses unique names, such as *Calvin Laboratory* or *Joint Genome Institute*, although these names refer to particular permanent facilities, and not just to their locations, and thus are not strictly analogous to the ones currently being implemented. However, some consideration could be given to unique naming of planned long-term off-site locations.

Recommendations

The building name should be the shortest (or simplest) unique combination, using a location modifier or a function modifier, plus a descriptor, that adequately describes the facility. Occasionally both a location and a function may need to be included. An acceptable alternative is to use all or part of the existing building name, given that it meets the requirements of uniqueness and appropriateness. Using these guidelines, the names for two current off-site locations might be:

415 20th Street, Oakland (Building 943):

Berkeley Lab Oakland Facility

2120 University Avenue, Berkeley (Building 937):

Berkeley Lab Tower Offices

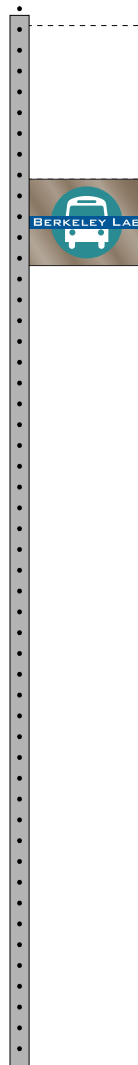# Shuttle System Signage and Graphics

**On-Site
Shuttle Signage**
Scale 1:20

**Off-Site
Shuttle Signage**
Scale 1:20

Station 15

Genome Sciences
Laboratory
Building 84
Building 85

Building 83

Building 74

Flip signal switch ► for pick-up

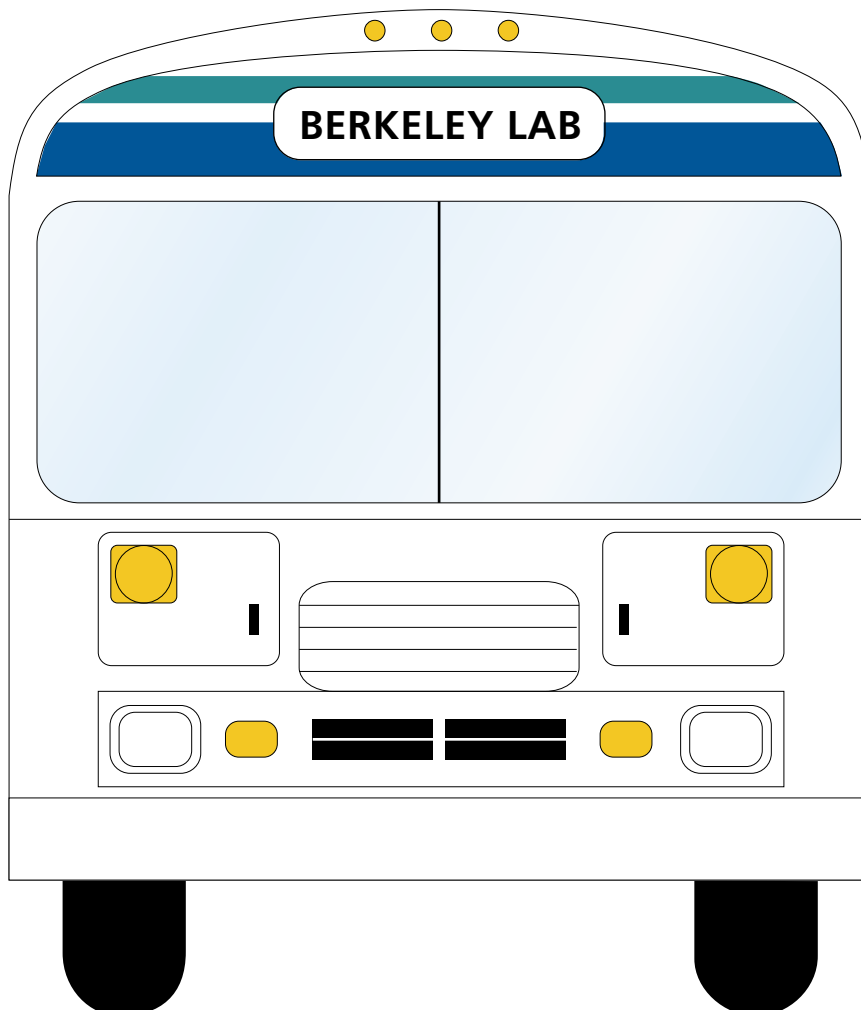BERKELEY LAB

Identification
Primary Bus
Code: IPB
Module Type: XG

Identification
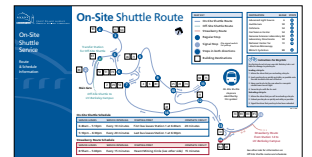Secondary Bus
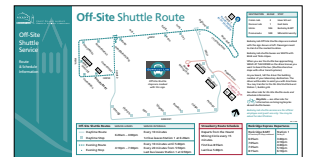Code: ISB
Module Type: XI

Shuttle Bus Graphics
Scale 1:20

Route Map
Scale 1:10

On-Site

Off-Site

BERKELEY LAB

Sign Unit Code

Each shuttle system sign unit is identified by a three-part code. The Sign Message Inventory list breaks out the code in the first three columns.

1. Function Code

Identifies functional type and hierarchy.

Major Categories
I = Identification
Hierarchy
P = Primary
S = Secondary
Detail Codes
B = Bus

Examples of use:

IPB = Identification Primary Bus
ISB = Identification Secondary Bus

2. Sign Number

A 5-digit number uniquely identifies each individual sign.

2A. The first digit refers to the Exterior Signage Area (1–7) in which the building is located. See Appendix C for a map of the exterior signage areas. The digit "0" indicates an off-site location.

2B. The next two digits identify the building number, for signs attached to buildings. The shuttle system signs have the digits "00" in this position.

2C. The last two digits are the sign number.

3. Module Type

The shuttle system sign module types are XG and XI. Each module type defines a particular sign dimension and layout. Construction of each module type is described in section 4.05. Specifications common to all modules are covered elsewhere in section 4.00.

IPB.50002.XG

① ②A ②B ②C ③
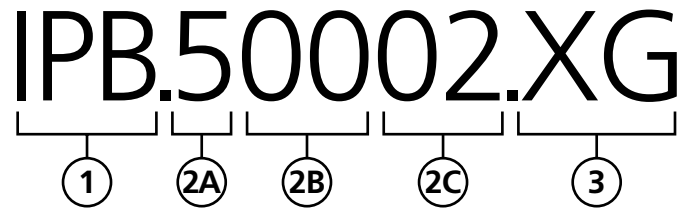
Sign Module Types

Shuttle System Function Codes & Module Types

Code	Description	Module Type
IPB	Identification Primary Bus	XG
ISB	Identification Secondary Bus	XI

Color Specifications

Color Code Description

Color Convention

The Shuttle System utilizes the Berkeley Lab identity colors (blue and teal) to differentiate On-Site and Off-Site routes. This scheme is consistently applied to signage, bus graphics, and printed materials (route maps and schedules). Other colors are used in the Bus Graphics and the Route Map Handout to indicate specific routes, but are not used in signage. The sign background colors are unique to the shuttle system, and are different than those used in other exterior signage. A list of the colors used in Shuttle System signage and bus graphics is given on page 4.03.02. Colors used in print materials such as the route map handout are specified in the art for that particular piece.

Color Code List

CODE	COLOR SPEC	FUNCTION
C01	Matthews 41-312 Medium Bronze	Sign background
C02	Matthews 47C-2T Riviera Sand	Pedestal color
C03	Pantone 653 CV Blue	On-Site Shuttle color
C05	Pantone 6453 CV Teal	Off-Site Shuttle color
C06	Pantone 194 CV Maroon	Strawberry Route Shuttle color
C07	Pantone 872 CV Old Gold Metallic*	Special Tour color
WH	White	Type color

* or stock vinyl equivalent

Typography

The type family specified for all signs is Frutiger. Frutiger Roman is the standard weight used on all modules. Frutiger Bold is used for building numbers on directional and identification signs. Type size specifications for specific signs are given in the Module Description pages.

Frutiger Roman

abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ
1234567890.,:

Frutiger Bold

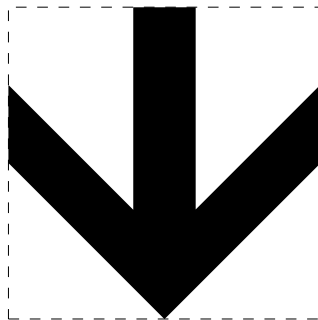**abcdefghijklmnopqrstuvwxyz
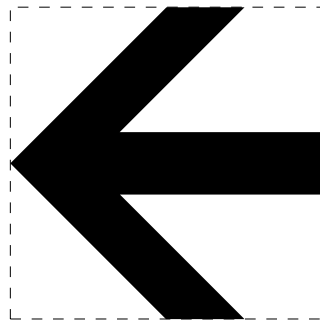ABCDEFGHIJKLMNOPQRSTUVWXYZ
1234567890.,:**

Arrow Art

The arrow symbol used throughout the system has been specifically designed to harmonize with the chosen type-faces. The signage vendor should use the arrow art as shown on this page and supplied as digital art on disk.
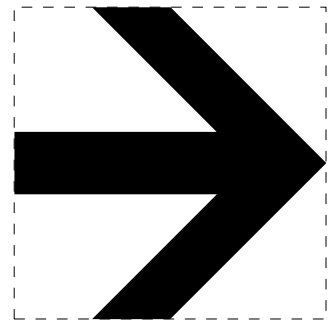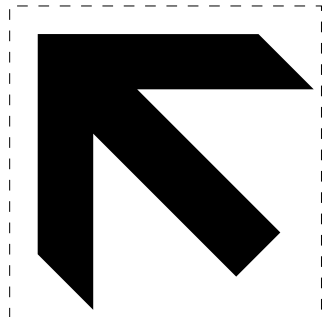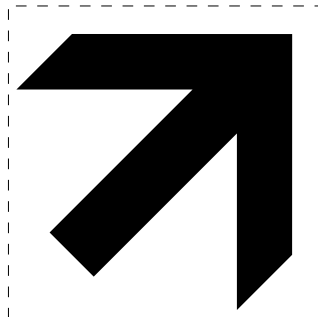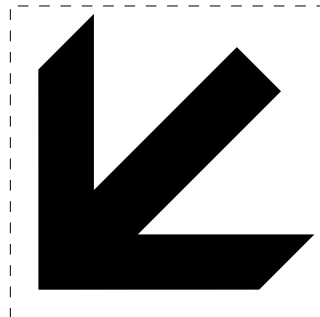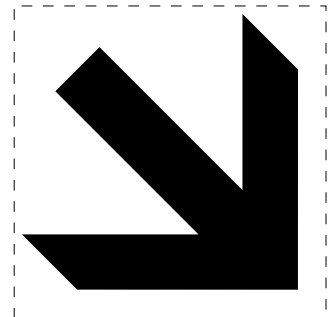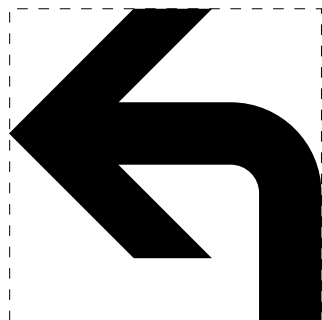
Up

Down

Left

Right

Up Left

Up Right
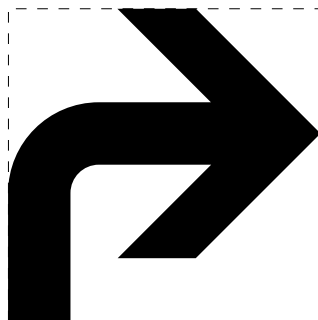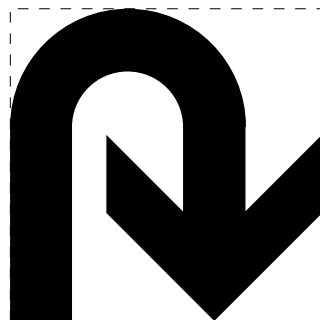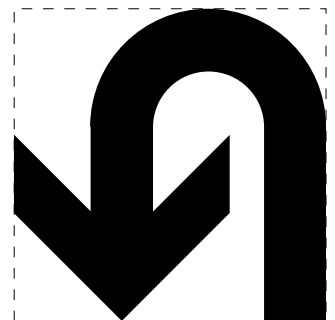
Down Left

Down Right

90° Left

90° Right

Back Right

Back Left

Pictographs

This pictograph has been chosen to harmonize with the standard signage typefaces. The signage vendor should use the art as shown on this page and supplied as digital art on disk.

Shuttle Bus

Module XG
Identification Primary Bus
IPB.00000.XG

On-site shuttle bus stops at the Laboratory which experi-ence a significant volume of visitor traffic are enhanced with pylon-style identification sign units. Each unit displays the Station Number and bus stop identification symbol on the primary face. Many units also display directional infor-mation for nearby visitor destinations. Depending on sign location and orientation, units may also display informa-tion on the secondary, or reverse, side. Refer to the Shuttle Sign Message Inventory for specific message content.

Station 15

↑
Genome Sciences
Laboratory
Building 84
Building 85

←
Building 83

→
Building 74

Flip signal switch ► for pick-up
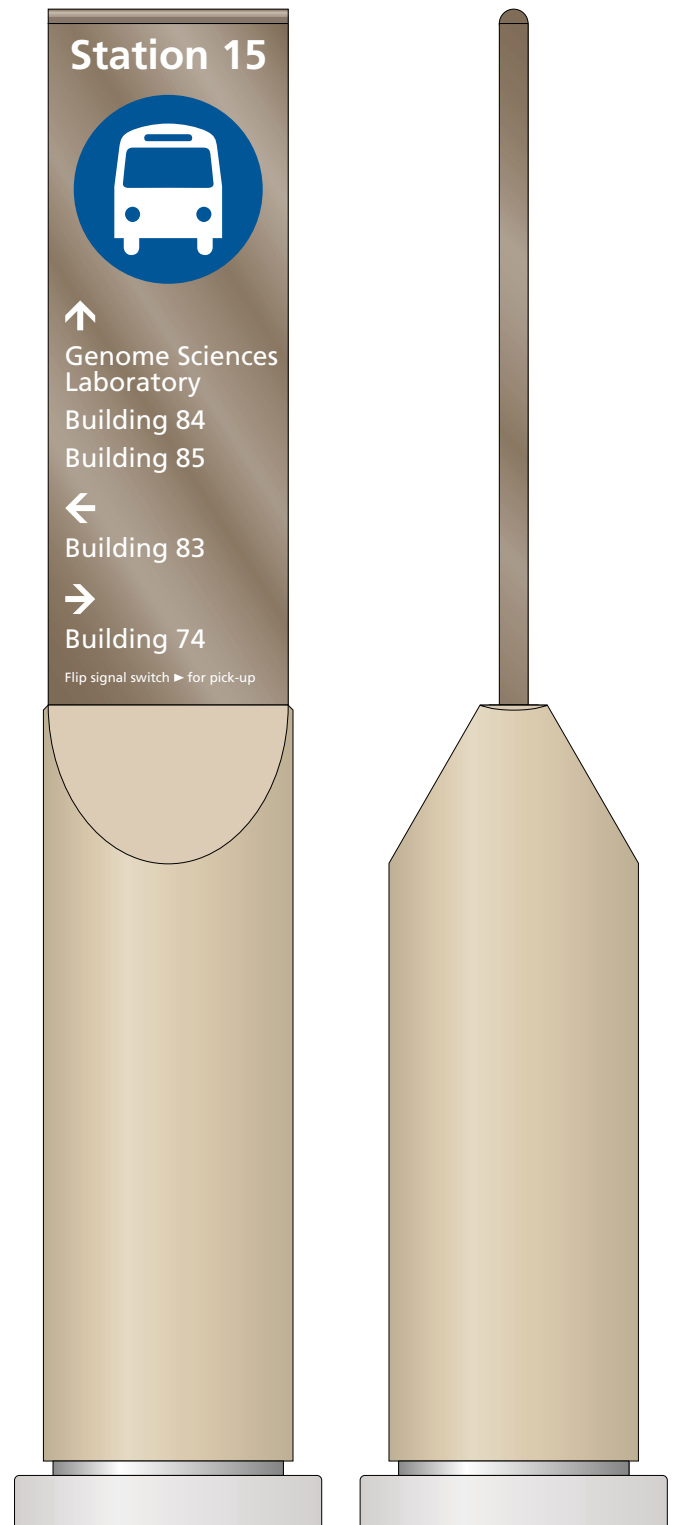
Module XG
Construction
Layout

Scale 1:10

HALF-ROUND CAP

MESSAGE
UNIT

ATTACHMENT
SCREWS

BEVEL
DETAIL

PEDESTAL
SHELL

BASE DISK
(PEDESTAL
FRAME)

FOOTING
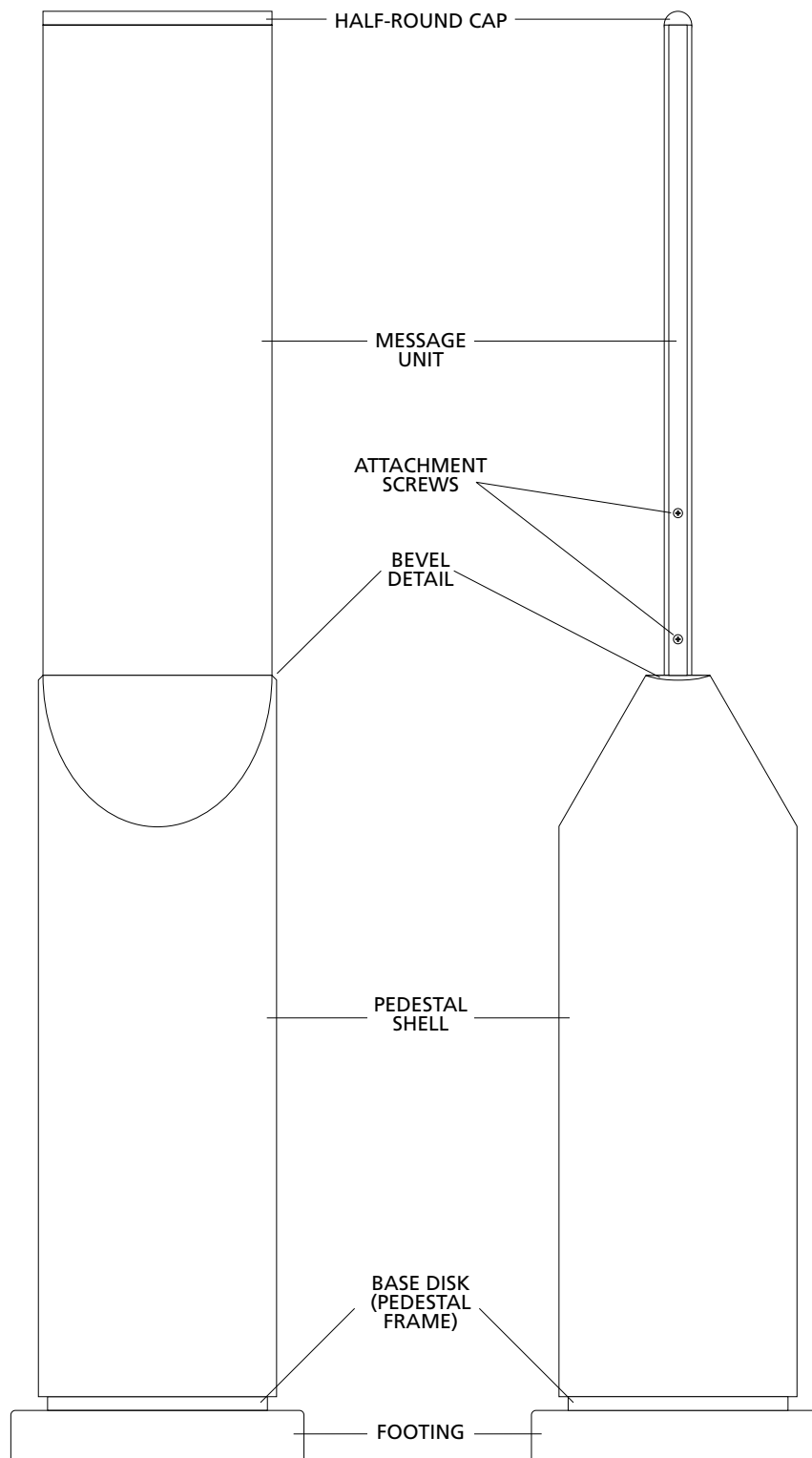
Module XG
Construction
Message Unit

Scale 1:10

12.5

0.75 in.

1.5

Half-round cap

0.25" face panels

35.5

Flathead machine screw

Countersunk hole
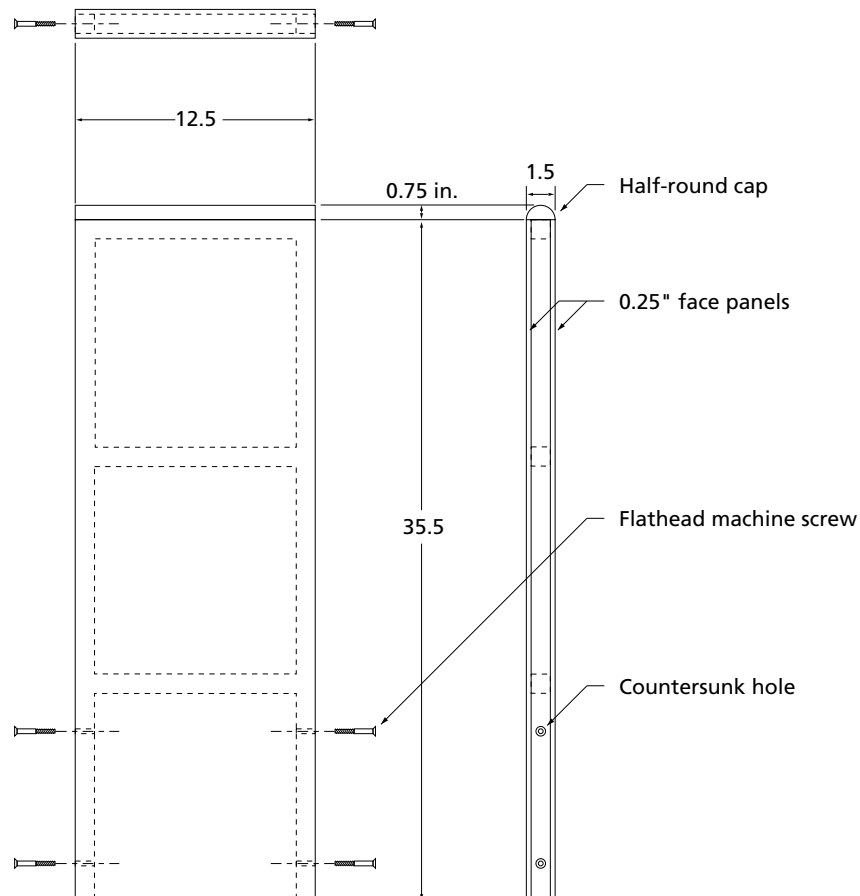
Module XG
Construction
Pedestal Shell

Scale 1:10

1.0 in.

10.5

12.5

13.0

3.5

Bevel detail

45°

8.25

60°

39.37
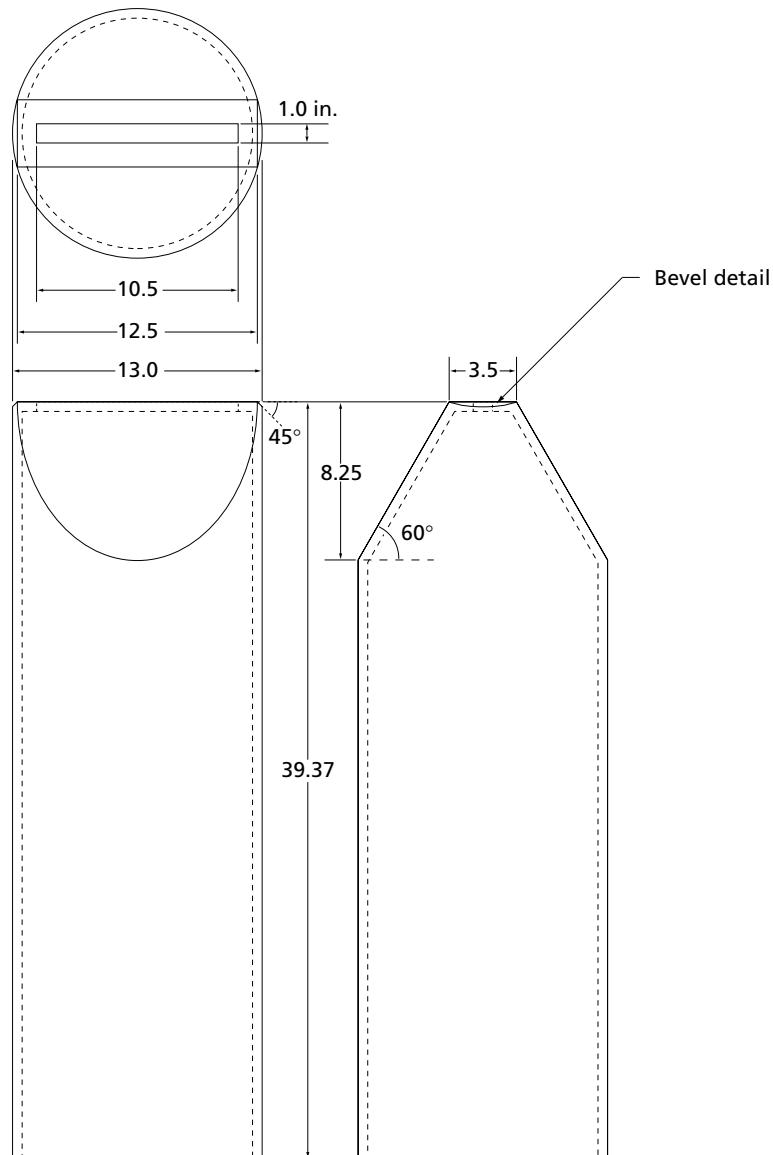
Module XG
Construction
Pedestal Frame

Scale 1:10

Welded-on nut

Allen head machine screw
(secures frame to footing post)

Welded-on or captive nut

Flathead machine screw
(secures Message Unit)

12.0

10.5

1.0

2.5 i.d.

8.25

Central tube

Support frame for
Pedestal Shell

38.62

Base disk

1.0
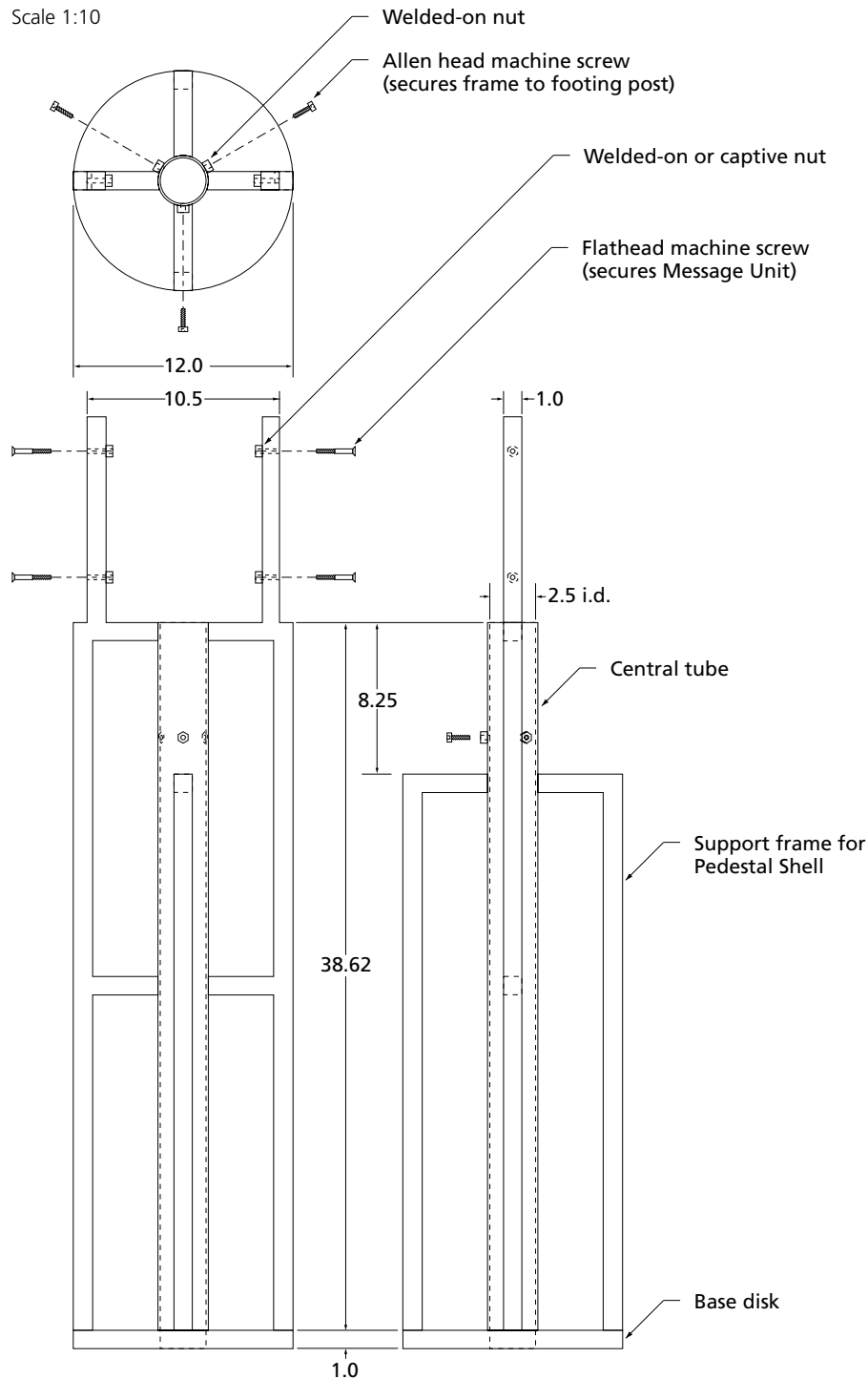
Module XG
Graphic Specifications

Scale 1:10

Station 15

	MESSAGE MODULE Color: CO1
	CIRCLE Color: CO3
	SYMBOL Color: WH

↑

Genome Sciences
Laboratory

Building 84 — ARROW Color: WH

Building 85

← TYPE Color: WH

Building 83

→

Building 74

Flip signal switch ► for pick-up

PEDESTAL
Color: CO2
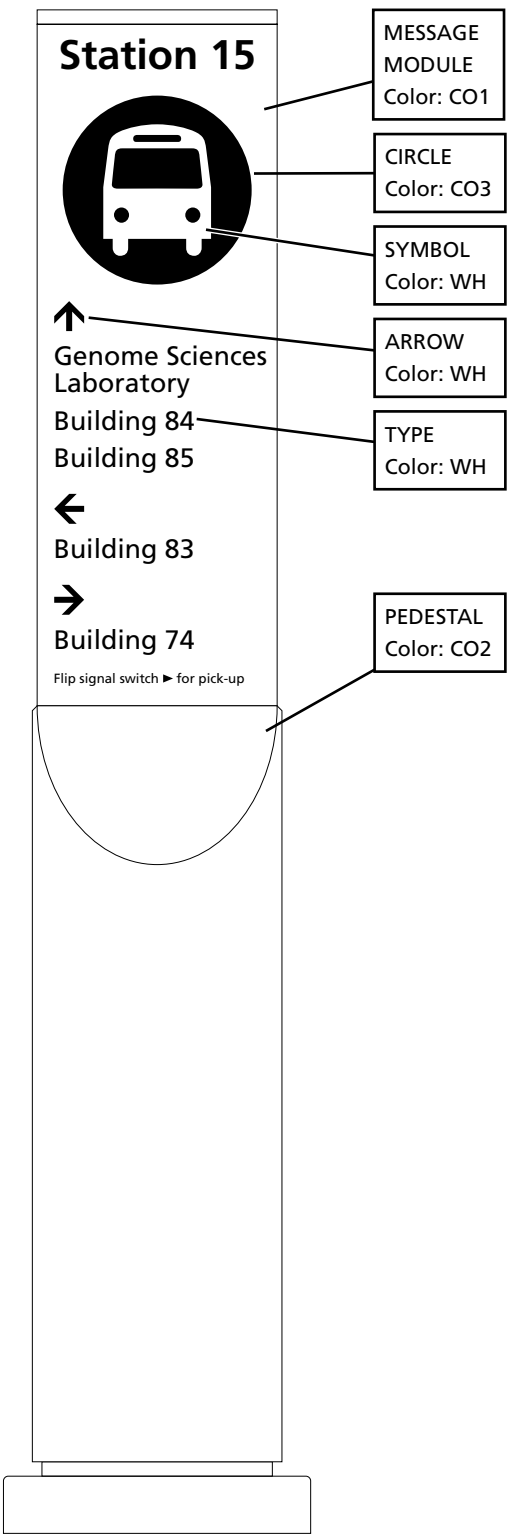
Finish Specifications

COLOR	FINISH
C01	Semigloss polyurethane
C02	Matte enamel/spray-on "light stucco" texture
C03	Semigloss vinyl/custom color
WH	White applied vinyl

Module XG
Type Specifications

Scale 1:4

0   centerline   317.5

0
22
60
95

Station 15

220

circle diameter 250mm

345
366

0   22

366 / 0
40
60
85
120

Genome Sciences Laboratory

170

Building 84

220

Building 85

255
295

Building 83

Building 74

45

Flip signal switch ► for pick-up   12.5

902/536
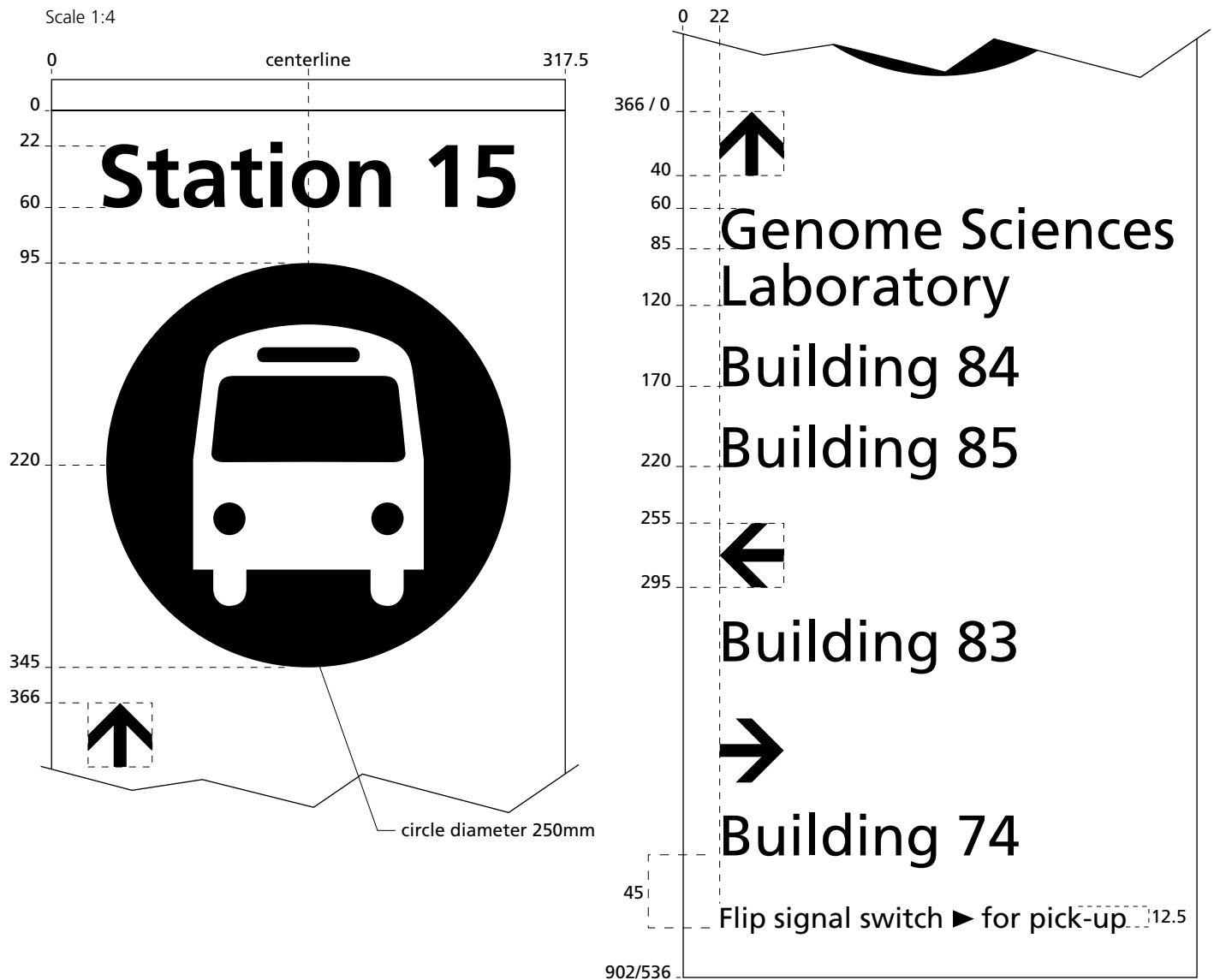
Module XI
Identification Secondary Bus
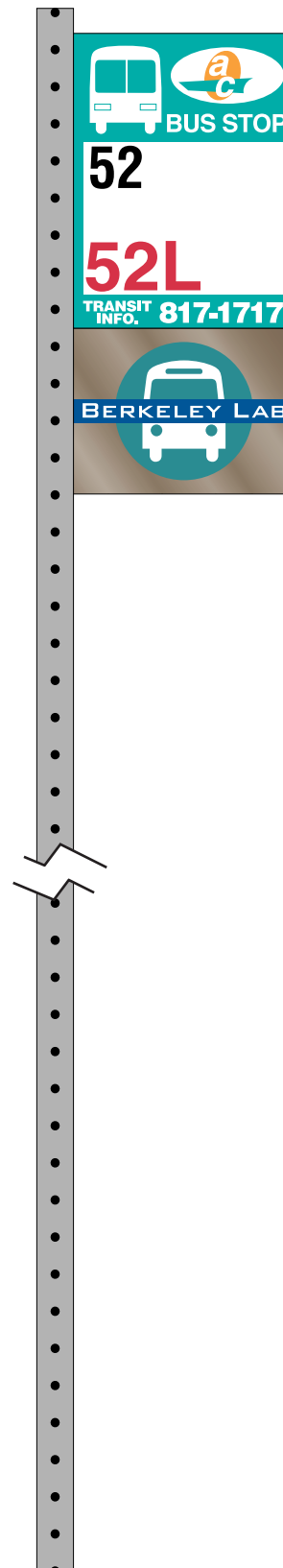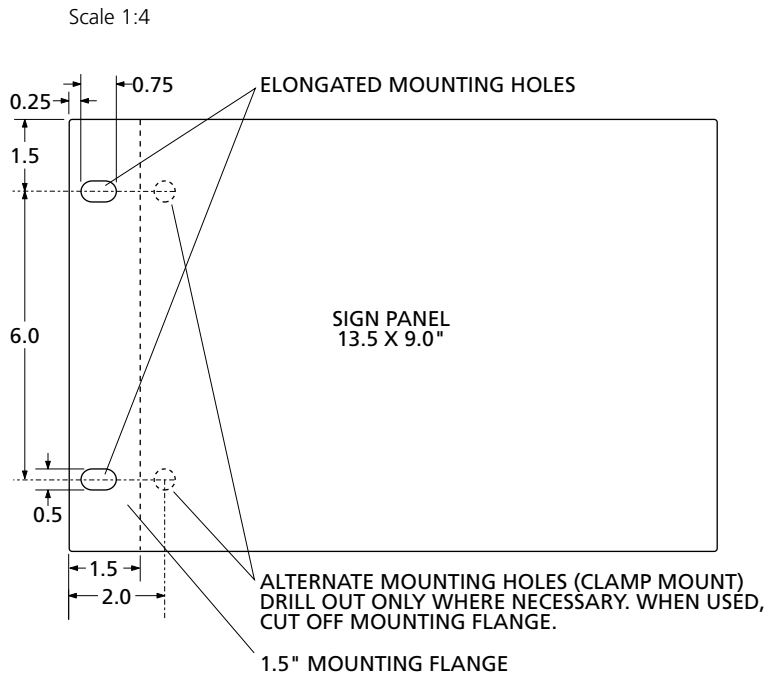## ISB.00000.XI

Off-site shuttle bus stops are indicated by post-mounted identification sign panels. These flag-style units are designed to be attached to existing poles, which they may share with AC Transit bus signs. In this case the XI module is attached below the AC Transit sign.

Module XI
Construction

Scale 1:4

ELONGATED MOUNTING HOLES

0.25
0.75
1.5

6.0

SIGN PANEL
13.5 X 9.0"

0.5

1.5
2.0

ALTERNATE MOUNTING HOLES (CLAMP MOUNT)
DRILL OUT ONLY WHERE NECESSARY. WHEN USED,
CUT OFF MOUNTING FLANGE.

1.5" MOUNTING FLANGE

Module XI Dimensions

PANEL	W x H	MATERIAL	DETAIL
Sign Panel	13.5 x 9"	.0625" aluminum	corner radius .0625"
	(343 x 228.5mm)	(1.6mm)	(1.6mm)

Module XI
Graphic Specifications

Scale 1:4

GRAPHIC BAR
Color: C03

TYPE
Color: WH

PICTOGRAPH
Color: WH

CIRCLE
Color: C05

BACKGROUND
Color: C01
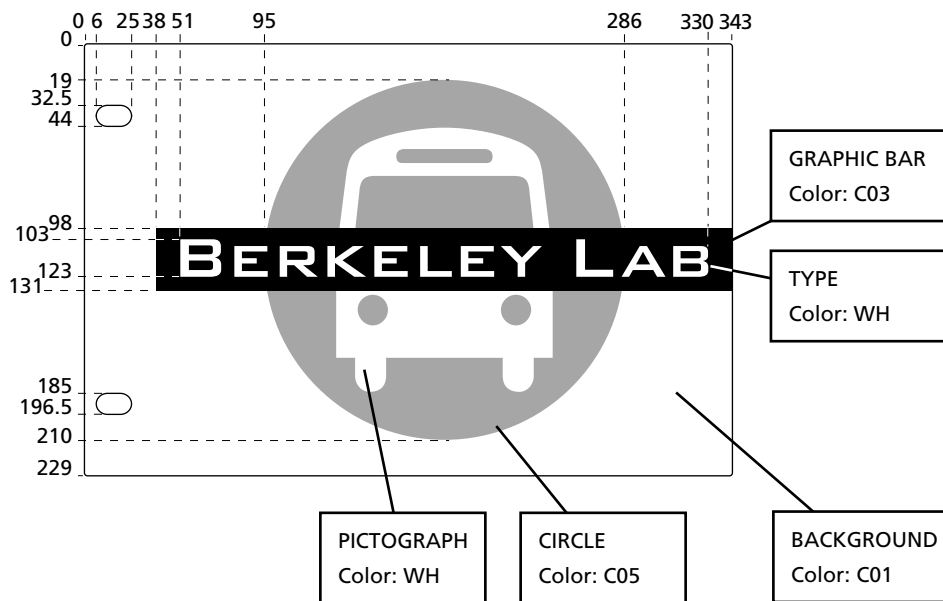
REVERSE

Module XI Finish Specifications

COLOR	FINISH
C01	Semigloss polyurethane
C03	Semigloss viny/custom color
WH	Reflective vinyl
C05	Semigloss vinyl/custom color

Pylon Footing
Module XG

Scale 1:10

Center post

16.0

22.0

2.25 o.d.

min. 36, max. 39

0.25" radius edge

3.0

Grade

6.0

Below grade section
may be rough finish
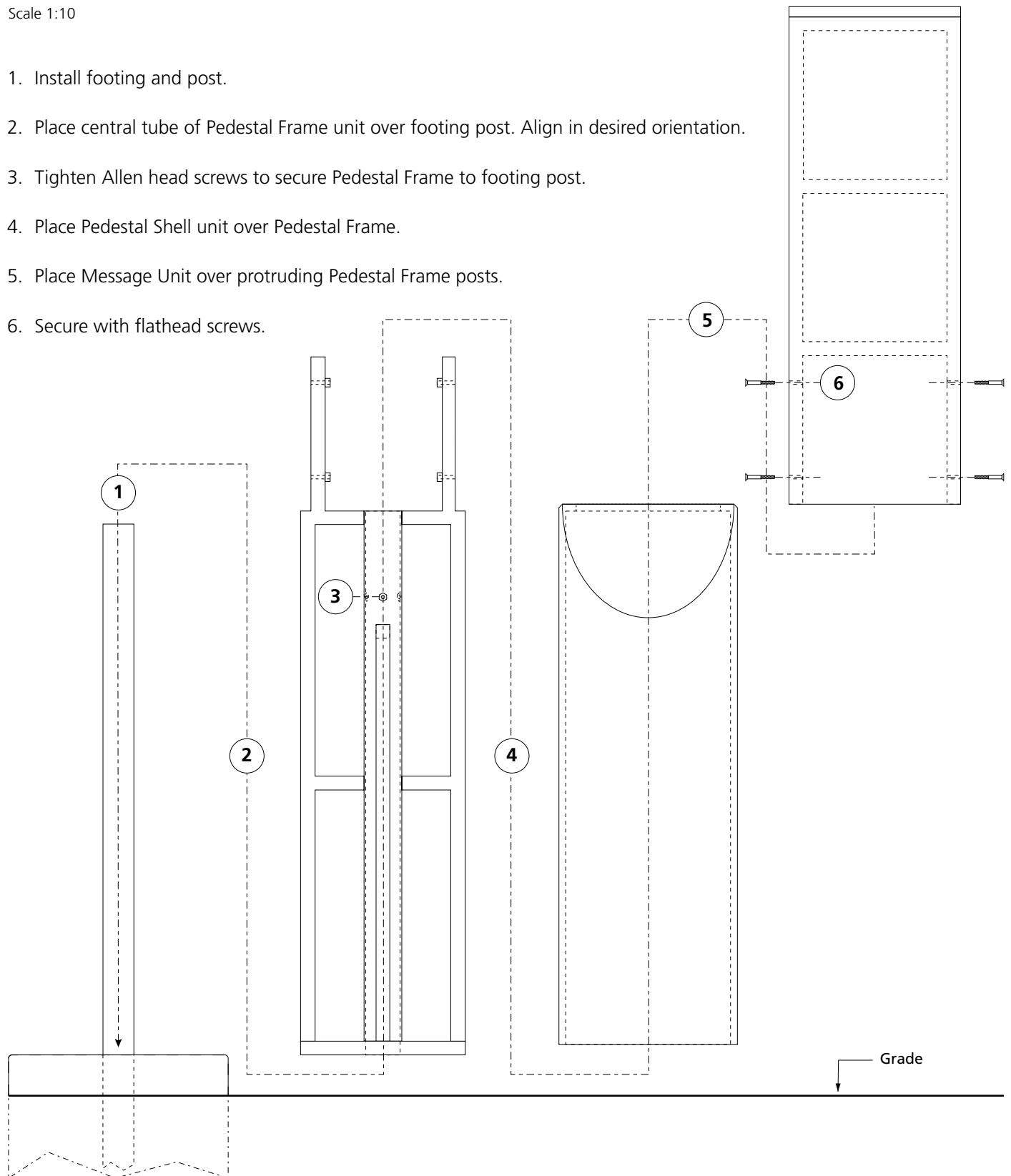
16.0
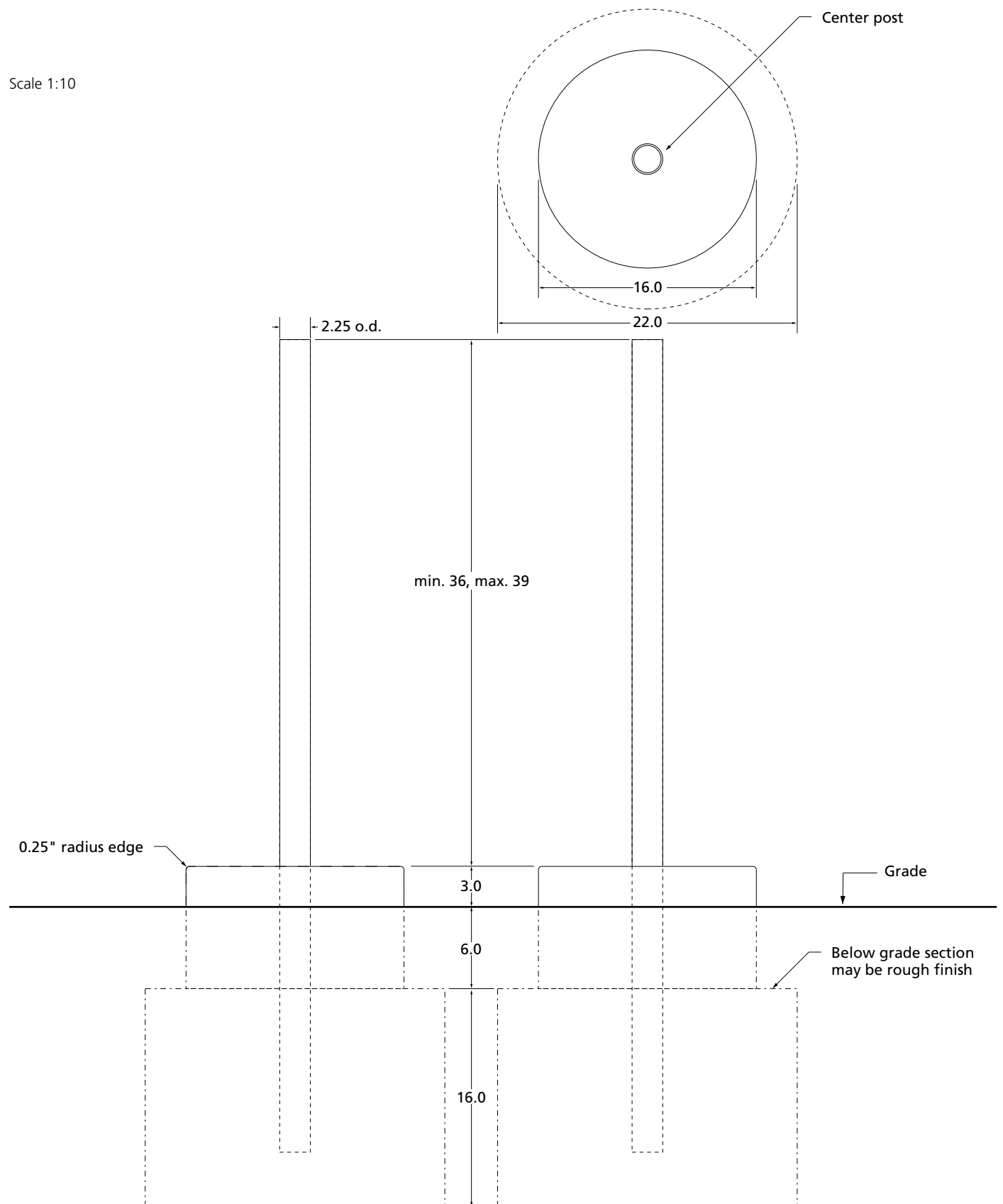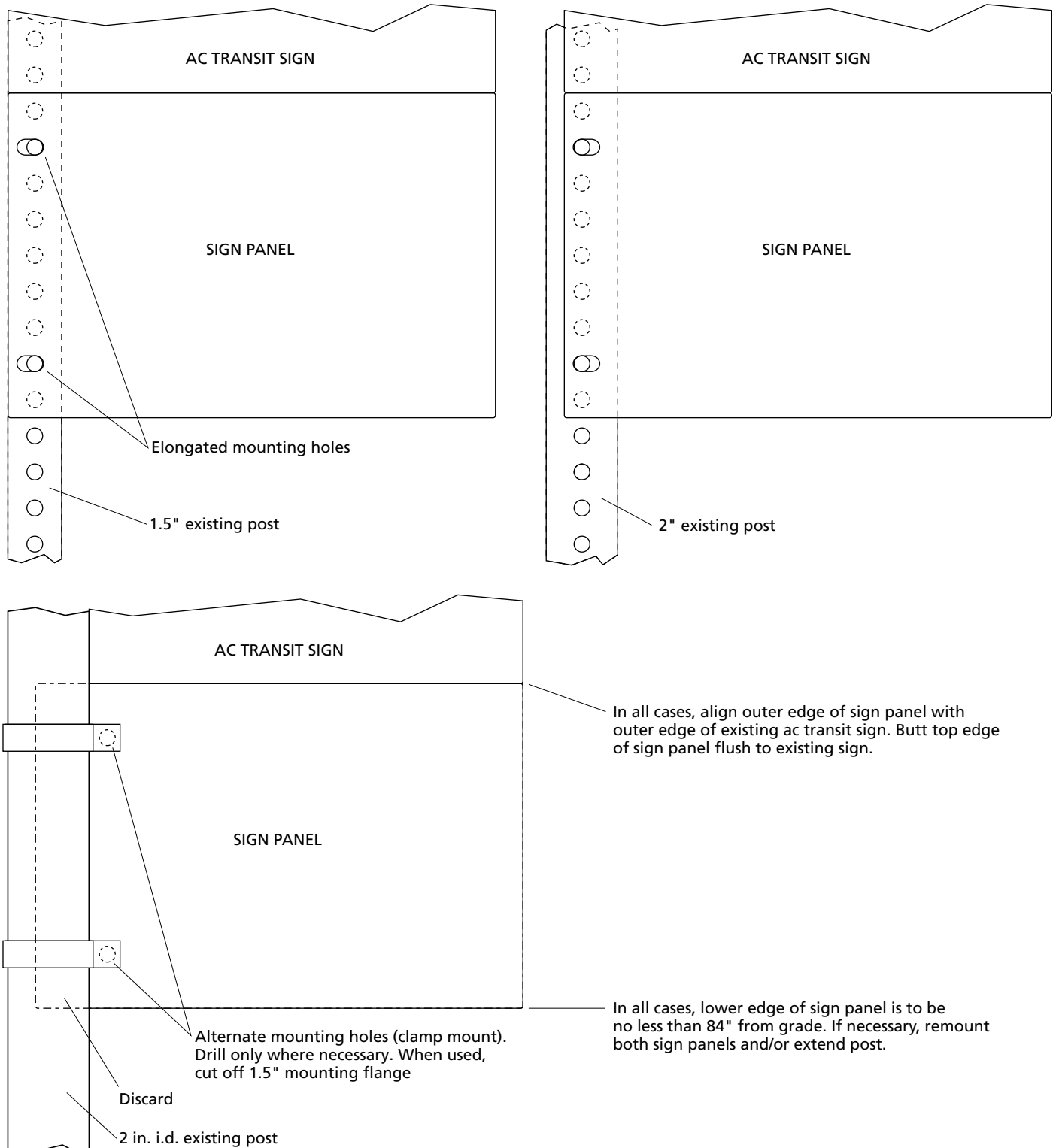
Assembly Sequence
Module XG

Scale 1:10

1. Install footing and post.

2. Place central tube of Pedestal Frame unit over footing post. Align in desired orientation.

3. Tighten Allen head screws to secure Pedestal Frame to footing post.

4. Place Pedestal Shell unit over Pedestal Frame.

5. Place Message Unit over protruding Pedestal Frame posts.

6. Secure with flathead screws.

Grade

Module XI

Scale 1:4

AC TRANSIT SIGN

SIGN PANEL

Elongated mounting holes

1.5" existing post

AC TRANSIT SIGN

SIGN PANEL

2" existing post

AC TRANSIT SIGN

SIGN PANEL

In all cases, align outer edge of sign panel with outer edge of existing ac transit sign. Butt top edge of sign panel flush to existing sign.

Alternate mounting holes (clamp mount). Drill only where necessary. When used, cut off 1.5" mounting flange

Discard

2 in. i.d. existing post

In all cases, lower edge of sign panel is to be no less than 84" from grade. If necessary, remount both sign panels and/or extend post.
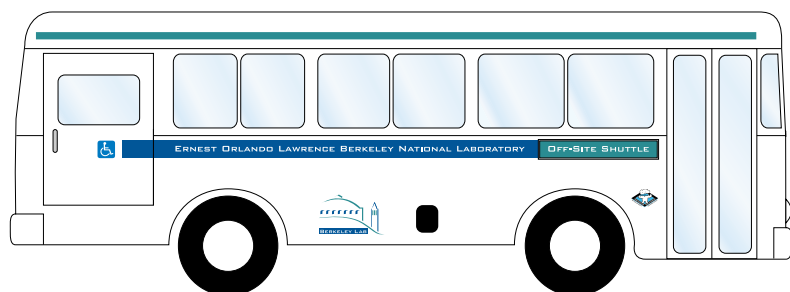
Description

The appearance and utility of the laboratory's shuttle bus fleet have been enhanced with a coordinated graphics scheme. The Lab colors of blue and teal appear as graphic stripes on white buses. Each side of each bus is identified with the Berkeley Lab logo and the name "Ernest Orlando Lawrence Berkeley National Laboratory". The front and rear of each bus are identified with the name "Berkeley Lab" in large letters.

On-Site and Off-Site shuttles are clearly differentiated. The words "On-Site Shuttle" appear on each side near the front of the bus, always on a blue background. The "Off-Site Shuttle" identification always appears on a teal background. Other routes feature their own distinct color schemes.
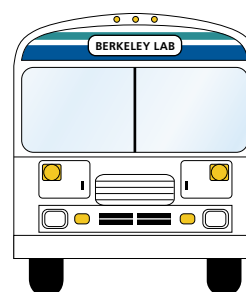
These route identification panels are in the form of removable strips which can be easily exchanged as required. The removable strips are held in place by a four-sided spring-loaded frame, permanently mounted to each side of the bus.

The layout and usage of these graphic elements are described in the following pages. Due to the multiple sizes and makes of buses in use from time to time, these are general guidelines only. Careful measurement and analysis should be made of any new vehicles that come into service before installing graphics.
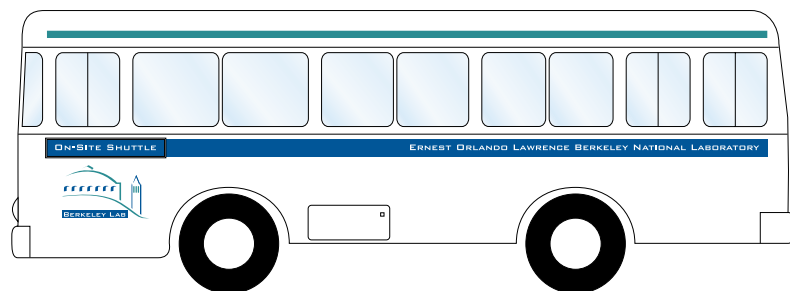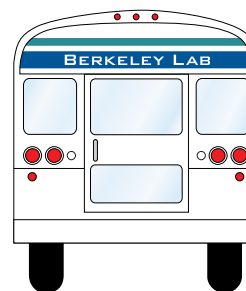
Door Side

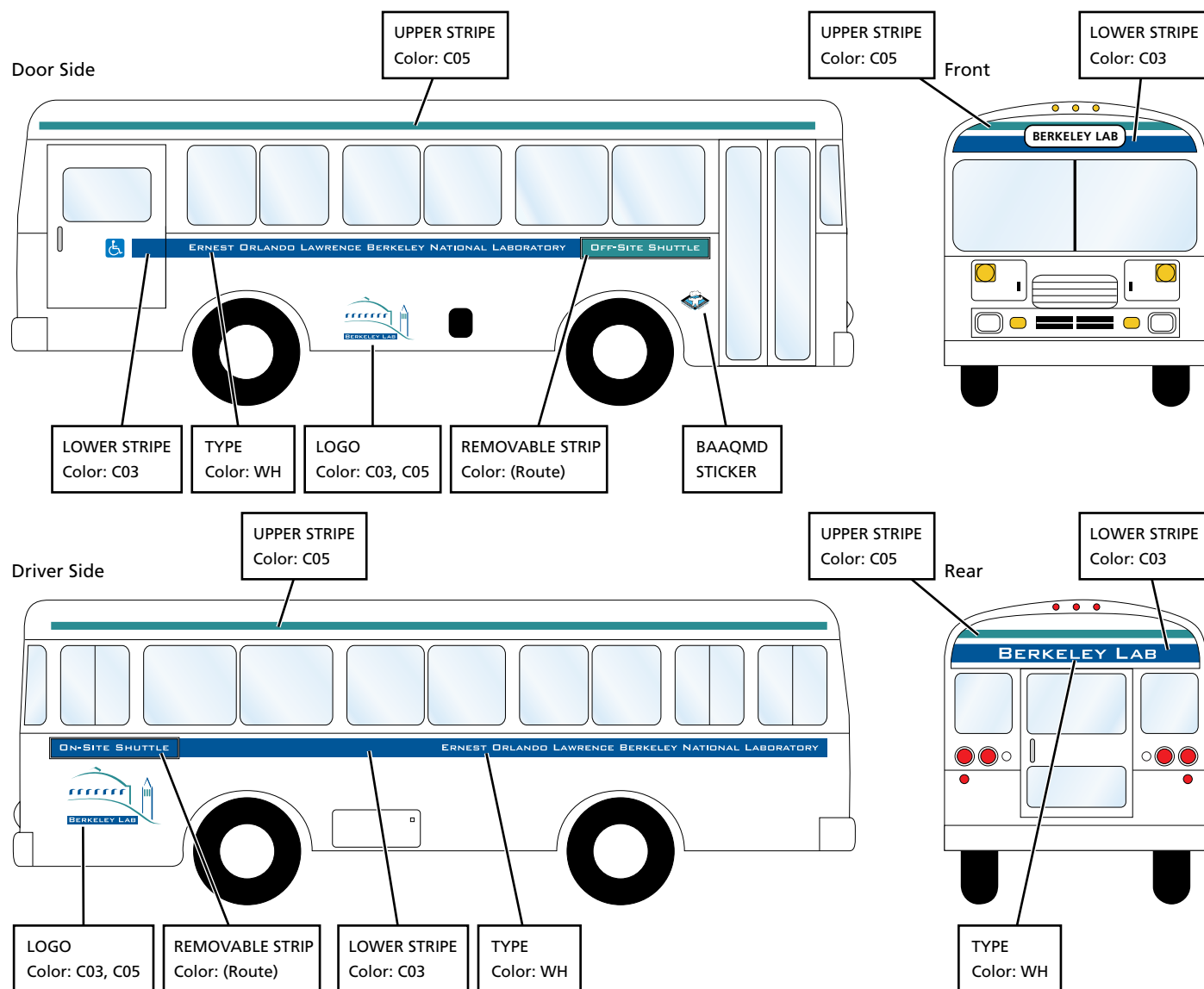**Front**

Driver Side

Rear

Layout

Door Side

UPPER STRIPE
Color: C05

LOWER STRIPE
Color: C03

TYPE
Color: WH

LOGO
Color: C03, C05

REMOVABLE STRIP
Color: (Route)

BAAQMD
STICKER

Front

UPPER STRIPE
Color: C05

LOWER STRIPE
Color: C03

BERKELEY LAB

ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY

OFF-SITE SHUTTLE

BERKELEY LAB

Driver Side

UPPER STRIPE
Color: C05

LOGO
Color: C03, C05

REMOVABLE STRIP
Color: (Route)

LOWER STRIPE
Color: C03

TYPE
Color: WH

ON-SITE SHUTTLE

ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY

BERKELEY LAB

Rear

UPPER STRIPE
Color: C05

LOWER STRIPE
Color: C03

TYPE
Color: WH

BERKELEY LAB

Bus Graphics Color Specifications

CODE	COLOR
C03	Pantone 653 Blue/Custom-painted vinyl
WH	White/Vinyl
C05	Pantone 5483 Teal/Custom-painted vinyl

Side Stripes

The upper (teal) stripe runs above the top of the windows on each side of the vehicle. The lower (blue) stripe runs below the windows in an area unobstructed by corrugated panels. The start and end points of the upper and lower stripes should be aligned, where practical. The actual length of each stripe is determined by the characteristics of the individual vehicle.

Upper Stripe

Width: 3.5 in.   Length: as required   Color: C05

Lower Stripe/Door Side

at least 48"
(see note)

ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY

Width: 7 in.   Length: as required   Color: C03   Type Color: WH

Lower Stripe/Driver Side

at least 48"

ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY

Width: 7 in.   Length: as required   Color: C03   Type Color: WH

Note: The identification "Ernest Orlando Lawrence Berkeley National Laboratory" is positioned on the lower stripe starting at the rear of the vehicle. There must be at least 48" of uninterrupted stripe at the end nearest the front of the bus for the placement of the route identification removable strip and frame. The size of the type and/or the width of the stripe may need to be adjusted for certain applications. Two recommended alternatives are shown below.

Lower Stripe/Alternate Type Size – Door Side Shown

at least 48"

ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY

Width: 7 in.   Length: as required   Color: C03   Type Color: WH

Lower Stripe/Alternate Width – Driver Side Shown

ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY

at least 48"

Width: 5 in.   Length: as required   Color: C03   Type Color: WH

Front/Rear Identification

Vehicle identification graphics are the same on the front and rear, except where a destination "window" interrupts the stripes (variant shown below).

Standard

UPPER STRIPE

Color: C05

Trim ends to match vehicle contour

BERKELEY LAB

TYPE

Color: C04

LOWER STRIPE

Color: C05

Upper Stripe: 3.5" wide

Lower Stripe: 7" wide

Space between: 2"

Fit stripes around window

Variant

BERKELEY LAB

TYPE IN WINDOW

Typeface: Frutiger Bold

Size: Fit to window

Color: Black
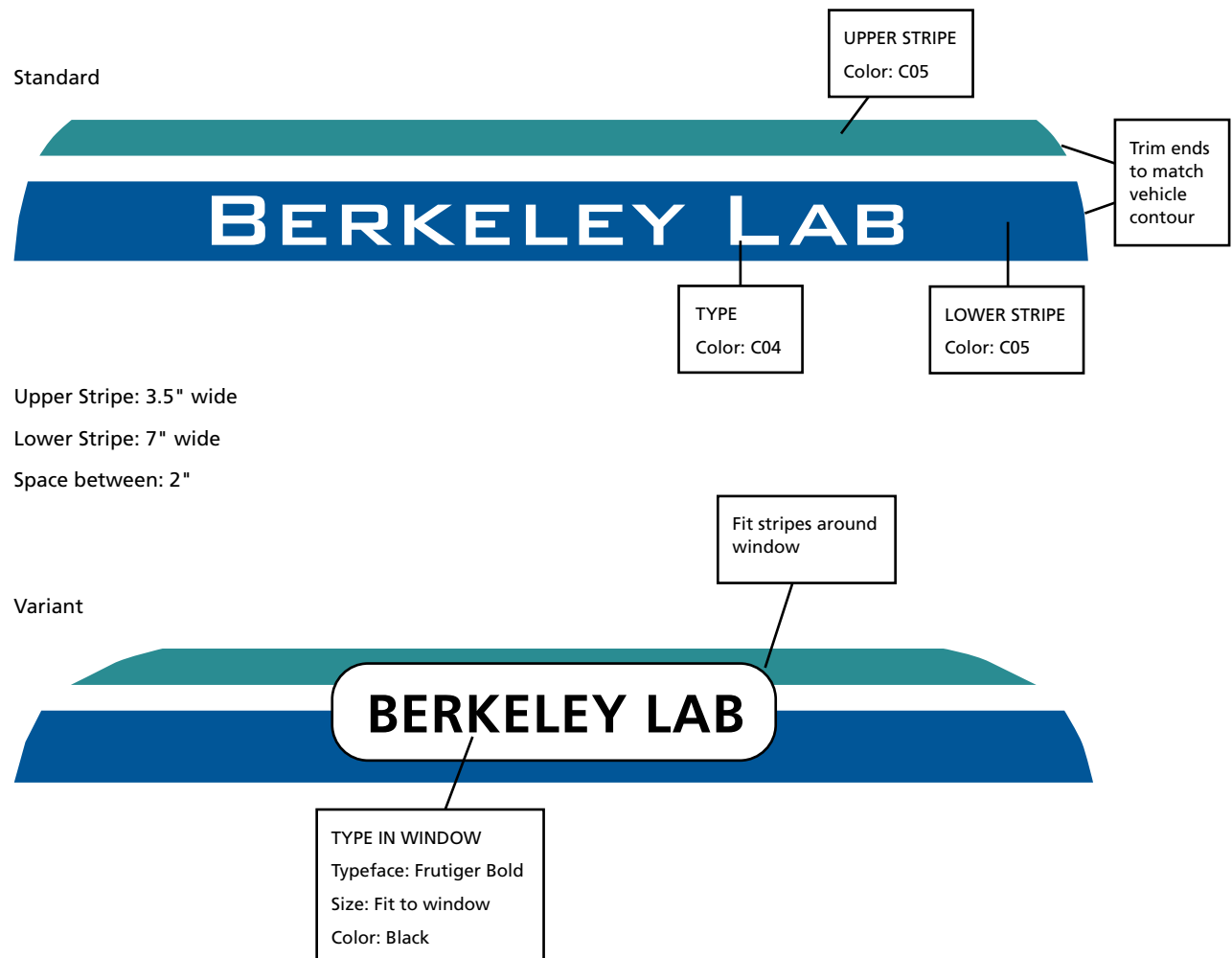
Logo

The Berkeley Lab logo appears on both sides of each vehicle. Placement varies, but in general it is positioned beneath the driver's window on the driver side, and between the wheels on the door side (see layout page 4.07.02).

Color: C03

Color: C05

Type Color: WH
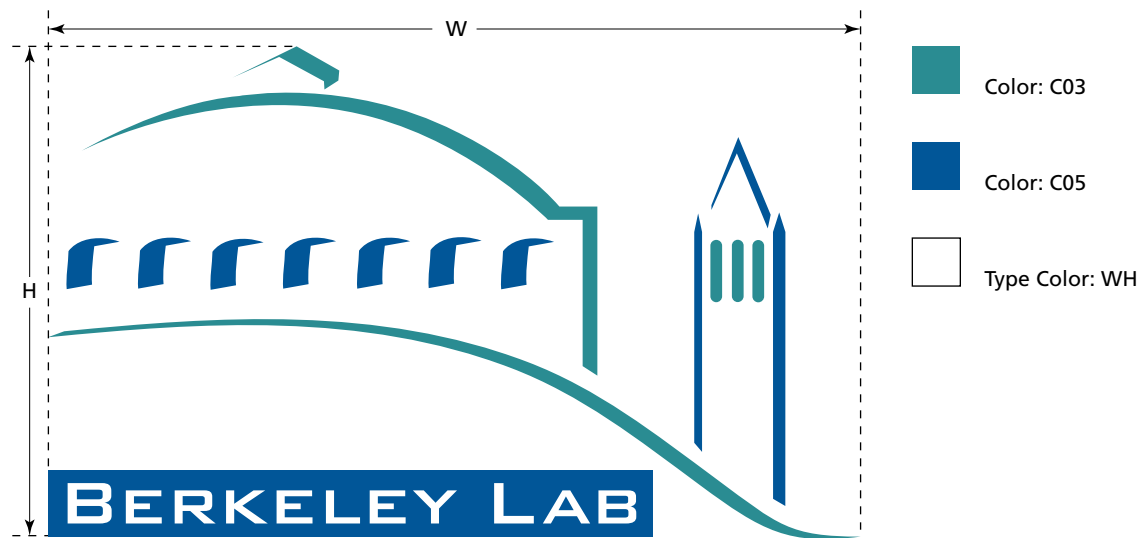
VEHICLE SIDE	POSITION	SIZE (W x H)
Driver	Below driver's window	34 x 20.5"
Door	Between wheels/below corrugations	24.8 x 15"

Removable Strips
Frame Structure

Scale 1:10

Off-Site Shuttle

Size: 6.125 x 47.125 in.
Type: white
Background:
Pantone 5483 Teal

On-Site Shuttle

Size: 6.125 x 47.125 in.
Type: white
Background:
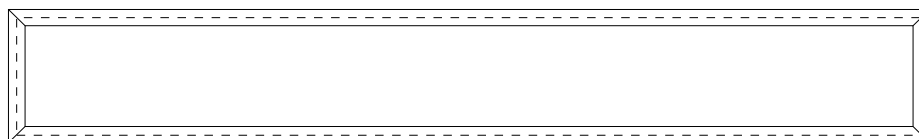Pantone 653 Blue

Rockridge

Size: 6.125 x 47.125 in.
Type: Pantone 5483 Teal
Background: white

Special Tour

Size: 6.125 x 47.125 in.
Type: white over black
Background:
Pantone 872 Metallic

Strawberry

Size: 6.125 x 47.125 in.
Type: white
Background:
Pantone 194 Maroon

Frame Size: 7 x 48 in. (o.d.)
Frame Thickness: 0.975 in.
Color: painted white

Each bus has two frames for removable route identification strips. They are aligned with the lower stripe (blue stripe) on each side of the bus, at the end nearest the front. The frame is secured to the bus by hi-tack foam tape. Each side of the frame flips open to receive the removable strip, and snaps closed to secure it.

Description

The route map handout is designed to be an easy-to-use guide to the shuttle bus system. The format is an accordion-fold flyer. One side is dedicated to On-Site shuttle information, the other side to Off-Site information.

Art for the route map handout was created digitally in Adobe Illustrator for Macintosh format, and can be easily updated to reflect new development at the Laboratory.
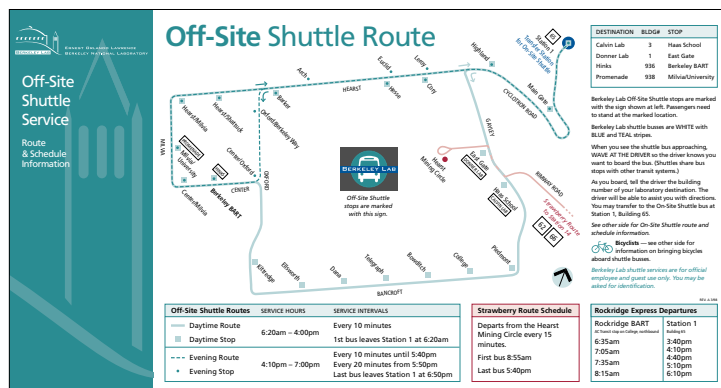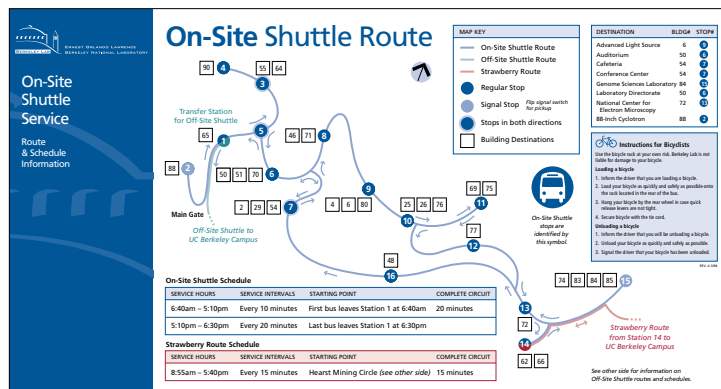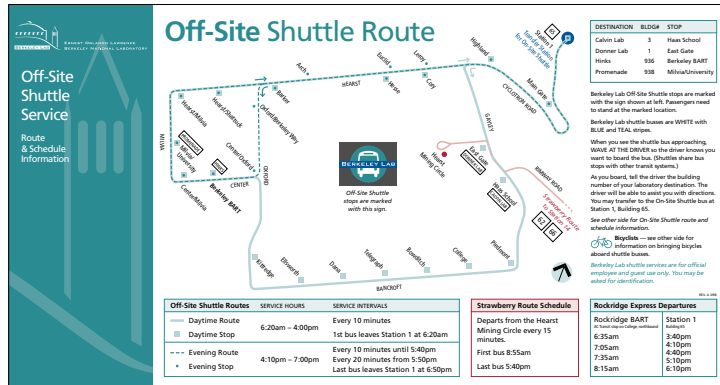
On-Site

Scale 1:4
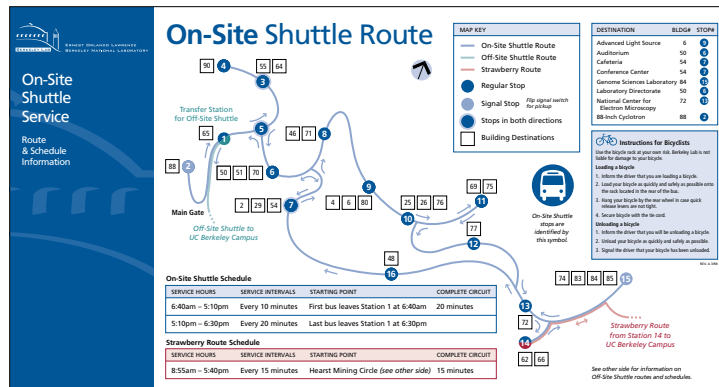
On-Site Page Color Specifications

COLOR	USE
Process Black	Text & map callouts
Pantone 653	Cover; On-Site Route; On-Site Shuttle Stop symbol; accents
Pantone 194	Strawberry Route
Pantone 5483	Off-Site Route

Off-Site

Scale 1:4

Off-Site Page Color Specifications

COLOR	USE
Process Black	Text & map callouts
Pantone 653	On-Site Route
Pantone 194	Strawberry Route
Pantone 5483	Cover; Off-Site Route; Off-Site Shuttle Stop symbol; accents

Building Identification Color Swatches

Building Identification

CG1A   Plochere G129   (Blue Gray)

CG1B   Plochere G133   (Light Blue Gray)

CG2A   Plochere G194   (Earthtone Green)

CG2B   Plochere G197   (Light Earthtone Green)
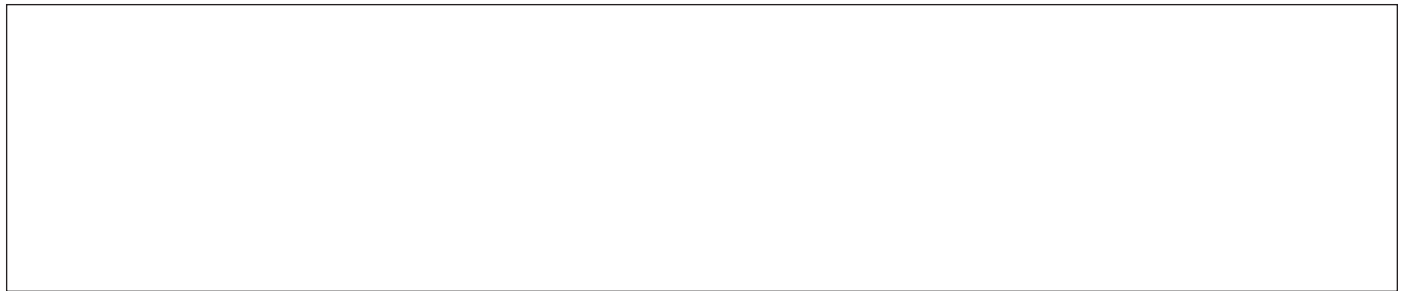
Building Identification

CG3A   Plochere G26   (Earthtone Brown)
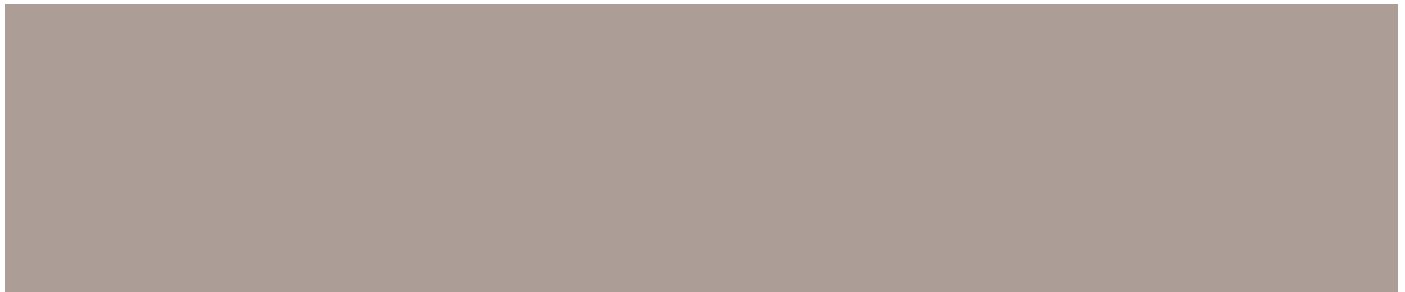
CG3B   Plochere G29   (Light Earthtone Brown)

WH   [none]   White

Shuttle System Color Swatches

Shuttle System

C01   Matthews 41-312   Medium Bronze

C02   Matthews 47C-2T   Riviera Sand

C03   Pantone 653 CV   Blue

C05   Pantone 5483 CV   Teal

Shuttle System

C06   Pantone 194 CV   Strawberry

C07   Pantone 872 CV   Old Gold Metallic

BK   [none]   Black

WH   [none]   White

Exterior Signage Areas

Exterior Signage Areas

1 **2** **3** **4** **5** **6** **7**

The Exterior Signage Areas are defined for the purpose of numbering and managing the exterior sign units. The first digit of the five-digit sign number indicates the area in which that sign is located.

1
2
3
4
5
6
7

CHAMBERLAIN ROAD
ALVAREZ ROAD
CYCLOTRON ROAD
CYCLOTRON RD
LAWRENCE ROAD WEST
SEABORG ROAD
McMILLAN ROAD
LAWRENCE ROAD WEST
SEGRE ROAD
LAWRENCE ROAD EAST
GLASER ROAD
McMILLAN ROAD
LAWRENCE ROAD EAST
CENTENNIAL DRIVE
CALVIN ROAD
LEE ROAD
S ROAD
STADIUM RIMWAY

90 C D B A E F 88 55 60 63 55A 64 51B 51A 51 50A 50E 50C 50B 50 50F 50D G1 G2 G3 H1 H2 70 70A 54 67B 67C 71A 71 M1 M2 71B 46A 46 L I J 47 58 58A K1 K2 17 27 53 52 N1 N2 N3 N4 7C 7 2 16 5 14 4 25A 25 26 80 80A 10 Y Z 29 6 37 34 35 45 48 43 40 41 X 78 79 77 77A R P Q 75 75A 75B 76 69 31 W V 72 72C 72B S 66 T1 T2 62 67A U4 85 85B 83 84 U5 U1 U2 U3 74

0 100 200 400 600 1000 ft